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The Measurement of Boundary Layers on a Compressor Blade in Cascade

Volume II—Data Tables

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Foreword

We would like to extend our appreciation to NASA Lewis for supporting this study (NASA Grant NSG-3624) and to the NASA Lewis personnel for their advice and patience. A special thanks goes to Mr. Nelson Sanger who acted as the grant manager. Nels gave us some valuable advice and showed abundant patience. Mr. Don Boldman also gave some valuable suggestions.

As the heads of the Garfield Thomas Water Tunnel during this study, Professor Blaine R. Parkin and Professor Robert E. Henderson gave valuable support. Many of the other engineers and technicians at the Applied Research Laboratory supported us and helped with the experimental setup. None of this experiment could have been accomplished without the many students who helped with the data acquisition and reduction. Fred Williams, Charlie Allen, Russ Taylor, Rob Synestvedt, Lisa (Shellenberger) Meyer, Ron Merski, and Bruce Kelly all spent many hours on what sometimes seemed to be a never-ending project.

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Nomenclature

c	blade chord length
C_p	static-pressure coefficient $= \frac{p - p_1}{\frac{1}{2}\rho V_1^2}$
K	kurtosis or flatness
LDV	laser Doppler velocimeter
n	data point index
N	number of samples;
	number of data points
p	static pressure
Re_c	blade chord Reynolds number $= \frac{cV_1}{\nu}$
S	skewness
$t_{0.975}$	Student's t score representing all but 2.5% of one tail of the Student's t
	distribution for a given degree of freedom
u	streamwise velocity
U_e	velocity at the boundary layer or wake edge
V	velocity
y	coordinate normal to the blade surface or across the wake

ν	kinematic viscosity (0.150 cm^2/sec for air)
ρ	fluid density (1.205 kg/m^3 for air)

Subscripts

inv	inviscid
meas	measured
1	inlet

Superscripts

$'$	fluctuating quantity

Summary

Measurements have been made of the boundary layers and wakes about a highly loaded, double-circular-arc compressor blade in cascade. These laser Doppler velocimetry measurements have yielded a very detailed and precise data base with which to test the application of viscous computational codes to turbomachinery. In order to test the computational codes at off-design conditions, the data have been acquired at a chord Reynolds number of 500,000 and at three incidence angles. Average values and 95% confidence bands have been tabularized for the velocity, local turbulence intensity, skewness, kurtosis, and percent backflow. Tables also exist for the blade static-pressure distributions and boundary layer velocity profiles reconstructed to account for the normal pressure gradient.

Chapter 1 Introduction

In volume one of this report, we reported the detailed measurements and analysis of the boundary layers and wakes about a double-circular-arc compressor blade in cascade. The highly loaded blades operated near a chord Reynolds number of 500,000 and at incidence angles of 5.0, -1.5, and -8.5 degrees. These conditions are typical of modern compressor blades and should provide an excellent data base for comparisons with viscous computations–especially under off-design conditions. The physical understanding of this complex flow field was emphasized in volume one of this report. In this, volume two, we make the measurements accessible to computational comparison by presenting data tables. As noted in volume one, computer tapes of this data are available at the Applied Research Laboratory from either William C. Zierke or Steven Deutsch, at the NASA Lewis Research Center from Nelson Sanger, or from COSMIC.

Chapter 2 Experimental Results

Since the blade static-pressure distribution provides the local streamwise pressure gradients and thus the resulting character of the boundary layers and wakes, one must first compare numerical computations with the measured static-pressure distribution. Tables 1, 2, and 3 show the measured values of the static-pressure coefficient, C_p, for the incidence angles of 5.0, -1.5, and -8.5 degrees, respectively. The values of the boundary layer edge velocity, U_e, that accompany these measured values of C_p were computed from the inviscid equation

$$U_e = V_1\sqrt{1.0 - C_p}\,.$$

The inlet reference velocity, V_1, was measured with a five-hole probe approximately 36 mm upstream of and parallel to the leading edge line. For the incidence angles of 5.0, -1.5, and -8.5 degrees, we measured V_1 to be 33.11, 32.88, and 33.28 m/sec, respectively. In computing C_p, we used the value 1.205 $\mathrm{kg/m^3}$ for the fluid density.

Boundary layers and near wakes were measured with a one-component, laser Doppler velocimeter (LDV), while far wakes were measured with a five-hole probe. For the LDV measurements, we employed simple arithmetic averaging to compute the moments of the velocity

Table 1. Static-pressure coefficients for $i = 5.0$ degrees

Pressure Surface			Suction Surface		
Percent Chord	C_p	U_e (m/sec)	Percent Chord	C_p	U_e (m/sec)
1.0	0.685	18.58	1.0	-1.346	50.72
3.0	0.547	22.28	2.0	-1.302	50.24
4.0	0.523	22.87	3.0	-0.936	46.08
5.0	0.508	23.22	5.0	-0.481	40.30
6.0	0.508	23.22	6.0	-0.453	39.92
12.2	0.509	23.20	12.2	-0.349	38.46
18.3	0.526	22.80	18.3	-0.270	37.32
24.5	0.545	22.33	24.5	-0.167	35.77
30.7	0.553	22.14	30.7	-0.067	34.20
36.8	0.574	21.61	36.8	0.038	32.48
43.0	0.583	21.38	43.0	0.097	31.47
49.2	0.588	21.25	49.2	0.153	30.48
55.3	0.588	21.25	55.3	0.196	29.69
61.5	0.590	21.20	61.5	0.243	28.84
67.7	0.597	21.02	67.7	0.260	28.51
73.8	0.584	21.36	73.8	0.292	27.89
80.0	0.565	21.84	80.0	0.301	27.71
82.5	0.551	21.19	82.5	0.309	27.55
85.4	0.543	22.38	88.3	0.297	27.79
88.3	0.523	22.87	94.5	0.307	27.59
91.3	0.494	23.55	97.3	0.308	27.57
94.5	0.456	24.42			
97.3	0.400	25.65			

Table 2. Static-pressure coefficients for $i = -1.5$ degrees

Pressure Surface			Suction Surface		
Percent Chord	C_p	U_e (m/sec)	Percent Chord	C_p	U_e (m/sec)
1.0	0.462	24.12	1.0	-1.047	47.04
3.0	0.449	24.40	2.0	-0.306	37.57
4.0	0.451	24.36	3.0	-0.233	36.51
5.0	0.456	24.25	6.0	-0.268	37.02
6.0	0.460	24.16	12.2	-0.254	36.82
12.2	0.486	23.58	18.3	-0.186	35.81
18.3	0.512	22.98	24.5	-0.111	34.66
24.5	0.536	22.39	30.7	-0.014	33.12
30.7	0.554	21.97	36.8	0.064	31.81
36.8	0.574	21.47	43.0	0.117	30.90
43.0	0.590	21.06	49.2	0.169	29.97
49.2	0.603	20.71	55.3	0.228	28.90
55.3	0.610	20.53	61.5	0.275	27.99
61.5	0.618	20.33	67.7	0.311	27.30
67.7	0.614	20.43	73.8	0.333	26.86
73.8	0.608	20.58	80.0	0.354	26.43
82.5	0.589	21.08	82.5	0.355	26.41
85.4	0.579	21.32	88.3	0.372	26.06
88.3	0.566	21.66	94.5	0.369	26.12
91.3	0.544	22.20	97.3	0.360	26.29
94.5	0.513	22.94			
97.3	0.463	24.10			

Table 3. Static-pressure coefficients for $i = -8.5$ degrees

Pressure Surface			Suction Surface		
Percent Chord	C_p	U_e (m/sec)	Percent Chord	C_p	U_e (m/sec)
1.0	-0.339	38.51	1.0	-0.177	36.10
3.0	0.151	30.66	2.0	-0.180	36.15
4.0	0.186	30.02	3.0	-0.235	36.98
5.0	0.194	29.89	6.0	-0.346	38.61
6.0	0.200	29.77	12.2	-0.389	39.23
12.2	0.284	28.15	18.3	-0.398	39.34
18.3	0.345	26.93	24.5	-0.362	38.85
24.5	0.386	26.07	30.7	-0.297	37.91
30.7	0.419	25.36	36.8	-0.230	36.92
36.8	0.451	24.65	43.0	-0.170	35.99
43.0	0.476	24.09	49.2	-0.114	35.12
49.2	0.494	23.68	55.3	-0.051	34.12
55.3	0.507	23.37	61.5	0.010	33.11
61.5	0.523	23.00	67.7	0.055	32.35
67.7	0.536	22.67	73.8	0.121	31.20
73.8	0.540	22.57	80.0	0.182	30.10
82.5	0.532	22.77	82.5	0.217	29.44
85.4	0.539	22.60	88.3	0.275	28.34
88.3	0.529	22.85	94.5	0.329	27.27
91.3	0.513	23.22	97.3	0.336	27.12
94.5	0.493	23.70			
97.3	0.453	24.60			

distributions. The mean velocity was taken as

$$u = \frac{1}{N}\sum_{n=1}^{N} u_n$$

and the variance as

$$u'^2 = \frac{1}{N}\sum_{n=1}^{N}(u_n - u)^2 .$$

Local turbulence intensity was taken as $\sqrt{u'^2}/u$ and turbulence intensity was taken as $\sqrt{u'^2}/U_e$. For many of the boundary layers measured, we also computed the skewness and kurtosis (or flatness) from

$$S = \frac{1}{Nu'^3}\sum_{n=1}^{N}(u_n - u)^3$$

and

$$K = \frac{1}{Nu'^4}\sum_{n=1}^{N}(u_n - u)^4 .$$

In addition, we could easily compute the percent backflow by calculating the portion of the measured velocity distribution that includes negative velocities.

For all boundary layers and wakes, profiles were defined by statistically treating the data for six individual experiments. Six experiments were chosen as the statistics found from six experiments showed less than 1% scatter in the freestream data. Deviation bands represent 95% confidence levels as determined by a Student's t test,

$$u \pm \frac{s_u}{\sqrt{N-1}} t_{0.975} ,$$

where N is the number of samples. Tabularized data for the Student's t test yield $t_{0.975} = 2.571$ when the number of degrees of freedom $(N - 1)$ is five. Tables 4 through 80 show the average values and corresponding deviation bands for the measurements of all the boundary layers and wakes.

Table 4. Boundary Layer Measurements at 2.7% Chord on the Pressure Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.127	16.31	4.97	0.225	0.160	-0.782	0.763	4.098	2.185	0.00	0.00
0.191	20.00	1.69	0.103	0.047	-1.168	0.641	6.867	3.891	0.00	0.00
0.254	21.04	0.31	0.081	0.011	-1.775	0.758	8.380	3.798	0.00	0.00
0.318	21.32	0.35	0.073	0.011	-1.764	0.528	8.758	2.837	0.00	0.00
0.381	21.28	0.35	0.074	0.014	-1.606	0.569	8.786	3.823	0.00	0.00
0.508	21.53	0.26	0.067	0.009	-1.543	0.549	9.060	3.199	0.00	0.00
0.762	21.86	0.14	0.060	0.007	-1.918	0.694	12.760	5.664	0.00	0.00
1.016	22.14	0.12	0.053	0.010	-1.844	0.989	13.540	8.636	0.00	0.00
1.524	22.52	0.02	0.049	0.012	-1.292	2.444	22.160	14.710	0.00	0.00
2.032	22.82	0.12	0.046	0.013	-1.168	1.620	12.930	7.082	0.00	0.00
2.540	23.22	0.15	0.035	0.007	0.756	0.508	7.968	2.794	0.00	0.00
3.810	23.96	0.17	0.034	0.006	0.888	0.730	8.169	6.204	0.00	0.00
5.080	24.76	0.29	0.033	0.007	0.833	0.403	5.163	1.881	0.00	0.00
6.350	25.36	0.19	0.031	0.005	1.331	1.154	10.090	11.520	0.00	0.00
7.620	25.98	0.27	0.031	0.007	0.554	0.886	5.915	2.566	0.00	0.00
8.890	26.38	0.23	0.028	0.006	0.743	0.930	5.893	4.682	0.00	0.00
10.160	26.77	0.24	0.025	0.005	0.569	0.490	4.372	1.873	0.00	0.00
11.430	27.24	0.19	0.023	0.007	-0.002	0.308	4.365	2.344	0.00	0.00
12.700	27.60	0.21	0.023	0.004	0.229	0.285	3.348	0.699	0.00	0.00
13.970	27.93	0.13	0.023	0.002	0.442	0.401	4.133	0.960	0.00	0.00
15.240	28.27	0.09	0.022	0.001	0.077	0.850	5.362	4.003	0.00	0.00
16.510	28.54	0.12	0.022	0.002	0.147	0.837	5.731	3.069	0.00	0.00
17.780	28.79	0.14	0.021	0.003	0.427	0.356	3.868	1.477	0.00	0.00
19.050	29.11	0.14	0.021	0.001	0.378	0.241	3.580	0.544	0.00	0.00
20.320	29.33	0.14	0.021	0.003	0.487	0.910	5.591	5.863	0.00	0.00
21.590	29.50	0.13	0.020	0.002	-0.209	1.503	8.036	10.410	0.00	0.00
22.860	29.72	0.13	0.020	0.002	0.410	0.444	3.942	1.768	0.00	0.00
24.130	29.98	0.10	0.020	0.003	-0.207	0.947	5.671	5.200	0.00	0.00
25.400	30.17	0.11	0.020	0.001	0.305	0.360	3.624	0.958	0.00	0.00
26.670	30.36	0.11	0.019	0.002	0.346	0.197	3.575	0.631	0.00	0.00
27.940	30.54	0.11	0.020	0.002	0.409	0.346	4.652	1.591	0.00	0.00
29.210	30.77	0.11	0.018	0.001	0.354	0.272	3.319	0.564	0.00	0.00
30.480	30.88	0.12	0.020	0.002	0.097	0.164	3.200	0.367	0.00	0.00
31.750	31.11	0.11	0.020	0.001	0.254	0.255	3.384	0.496	0.00	0.00
33.020	31.28	0.09	0.019	0.002	0.297	0.580	4.530	2.018	0.00	0.00
34.290	31.47	0.21	0.020	0.002	0.217	0.417	3.361	1.129	0.00	0.00
35.560	31.61	0.17	0.020	0.002	0.146	0.211	3.365	0.761	0.00	0.00
36.830	31.81	0.12	0.020	0.001	0.075	0.276	3.272	0.404	0.00	0.00
38.100	31.90	0.17	0.021	0.003	-0.493	1.064	5.985	6.849	0.00	0.00

Table 5. Boundary Layer Measurements at 5.9% Chord on the Pressure Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.318	19.76	1.25	0.105	0.018	-1.263	0.606	7.227	2.968	0.00	0.00
0.381	22.35	0.70	0.075	0.009	-3.247	1.103	19.300	8.486	0.00	0.00
0.508	23.76	0.17	0.047	0.005	-3.906	0.403	29.410	6.216	0.00	0.00
0.762	23.94	0.08	0.042	0.007	-4.236	1.937	43.960	32.090	0.00	0.00
1.016	24.10	0.10	0.033	0.009	-1.751	1.644	14.970	14.560	0.00	0.00
1.524	24.28	0.08	0.025	0.002	-0.194	0.298	4.466	2.364	0.00	0.00
2.032	24.34	0.06	0.023	0.001	-0.245	0.176	3.340	0.718	0.00	0.00
2.540	24.45	0.03	0.024	0.001	-0.077	0.227	3.183	0.764	0.00	0.00
3.810	24.69	0.05	0.022	0.001	0.101	0.218	3.130	0.239	0.00	0.00
5.080	24.92	0.08	0.023	0.002	0.048	0.310	3.256	1.102	0.00	0.00
6.350	25.18	0.05	0.024	0.004	0.008	0.494	3.876	0.749	0.00	0.00
7.620	25.52	0.08	0.023	0.001	0.375	0.491	4.442	2.343	0.00	0.00
8.890	25.80	0.04	0.022	0.002	0.095	0.163	3.058	0.216	0.00	0.00
10.160	26.05	0.10	0.021	0.001	0.052	0.246	3.104	0.640	0.00	0.00
11.430	26.37	0.04	0.021	0.002	0.281	0.253	3.722	1.129	0.00	0.00
12.700	26.66	0.09	0.021	0.002	0.179	0.126	3.453	0.549	0.00	0.00
13.970	26.92	0.06	0.021	0.001	0.326	0.355	3.856	1.344	0.00	0.00
15.240	27.20	0.08	0.022	0.001	0.361	0.310	3.418	0.793	0.00	0.00
16.510	27.46	0.07	0.021	0.001	0.244	0.550	4.038	1.414	0.00	0.00
17.780	27.71	0.08	0.020	0.001	0.458	0.517	3.976	1.567	0.00	0.00
19.050	27.99	0.07	0.020	0.001	0.094	0.157	3.345	0.655	0.00	0.00
20.320	28.19	0.07	0.020	0.001	0.325	0.268	3.190	0.615	0.00	0.00
21.590	28.41	0.08	0.020	0.001	0.033	0.171	3.322	0.837	0.00	0.00
22.860	28.63	0.08	0.020	0.001	0.225	0.112	3.019	0.367	0.00	0.00
24.130	28.86	0.10	0.019	0.002	0.389	0.276	3.808	0.787	0.00	0.00
25.400	29.06	0.10	0.019	0.001	0.254	0.201	3.234	0.620	0.00	0.00
26.670	29.30	0.09	0.020	0.001	0.159	0.253	3.529	0.766	0.00	0.00
27.940	29.47	0.08	0.019	0.001	0.126	0.169	2.976	0.397	0.00	0.00
29.210	29.68	0.04	0.018	0.001	0.081	0.229	3.114	0.587	0.00	0.00
30.480	29.83	0.09	0.018	0.001	0.165	0.226	3.330	0.527	0.00	0.00
31.750	29.98	0.09	0.019	0.002	0.186	0.250	3.218	0.453	0.00	0.00
33.020	30.21	0.04	0.019	0.001	0.072	0.208	3.320	0.301	0.00	0.00
34.290	30.45	0.07	0.019	0.001	0.309	0.367	3.409	0.613	0.00	0.00
35.560	30.60	0.09	0.019	0.001	0.141	0.226	3.471	0.653	0.00	0.00
36.830	30.77	0.08	0.018	0.001	0.296	0.225	3.333	0.807	0.00	0.00
38.100	30.91	0.06	0.019	0.002	0.203	0.183	3.234	0.402	0.00	0.00

Table 6. Boundary Layer Measurements at 14.4% Chord on the Pressure Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	9.79	0.80	0.187	0.023	0.343	0.220	4.602	1.440	0.00	0.00
0.318	13.69	0.96	0.133	0.017	0.394	0.159	4.051	0.617	0.00	0.00
0.381	17.35	1.22	0.112	0.014	-0.010	0.441	4.463	0.892	0.00	0.00
0.444	20.38	0.90	0.083	0.017	-1.278	0.817	10.280	7.043	0.00	0.00
0.508	22.29	0.53	0.061	0.011	-2.148	0.776	14.510	5.422	0.00	0.00
0.762	24.67	0.02	0.020	0.002	-0.152	0.302	3.394	1.055	0.00	0.00
1.016	24.83	0.07	0.019	0.002	-0.270	0.622	4.553	3.391	0.00	0.00
1.524	24.95	0.04	0.019	0.002	0.051	0.262	3.383	0.437	0.00	0.00
2.032	25.00	0.04	0.018	0.001	-0.087	0.173	3.416	0.887	0.00	0.00
2.540	25.06	0.05	0.019	0.001	-0.030	0.271	3.251	0.714	0.00	0.00
3.810	25.16	0.03	0.018	0.001	0.183	0.235	2.878	0.492	0.00	0.00
5.080	25.30	0.06	0.019	0.001	-0.030	0.164	3.010	0.421	0.00	0.00
6.350	25.44	0.04	0.018	0.002	0.270	0.195	3.406	0.434	0.00	0.00
7.620	25.59	0.05	0.019	0.001	-0.063	0.158	3.000	0.144	0.00	0.00
8.890	25.76	0.07	0.019	0.003	0.034	0.236	3.064	0.674	0.00	0.00
10.160	25.88	0.03	0.019	0.001	0.063	0.225	2.847	0.373	0.00	0.00
11.430	26.04	0.04	0.019	0.001	0.357	0.487	4.134	2.372	0.00	0.00
12.700	26.22	0.04	0.019	0.001	-0.035	0.163	3.120	0.649	0.00	0.00
13.970	26.35	0.04	0.019	0.001	0.117	0.287	3.699	0.844	0.00	0.00
15.240	26.51	0.06	0.019	0.002	0.124	0.325	3.521	1.357	0.00	0.00
16.510	26.65	0.05	0.019	0.002	0.242	0.142	3.161	0.319	0.00	0.00
17.780	26.85	0.07	0.019	0.002	-0.026	0.194	3.118	0.348	0.00	0.00
19.050	27.00	0.03	0.019	0.001	0.075	0.292	3.428	0.529	0.00	0.00
20.320	27.15	0.06	0.019	0.001	0.120	0.282	3.396	0.574	0.00	0.00
21.590	27.38	0.05	0.018	0.002	0.113	0.308	3.176	0.878	0.00	0.00
22.860	27.48	0.04	0.019	0.001	0.136	0.269	2.887	0.249	0.00	0.00
24.130	27.65	0.03	0.019	0.002	0.040	0.111	2.884	0.091	0.00	0.00
25.400	27.86	0.03	0.019	0.001	0.096	0.279	3.194	0.299	0.00	0.00
26.670	28.01	0.05	0.020	0.001	-0.005	0.283	3.209	0.527	0.00	0.00
27.940	28.19	0.06	0.019	0.001	0.281	0.252	3.470	0.947	0.00	0.00
29.210	28.33	0.03	0.020	0.001	0.258	0.174	3.422	0.668	0.00	0.00
30.480	28.56	0.04	0.020	0.002	0.157	0.181	3.172	0.341	0.00	0.00
31.750	28.68	0.05	0.020	0.002	0.265	0.258	3.253	0.585	0.00	0.00
33.020	28.83	0.05	0.019	0.002	0.280	0.477	3.674	1.377	0.00	0.00
34.290	29.04	0.04	0.019	0.001	0.209	0.294	3.345	0.724	0.00	0.00
35.560	29.22	0.04	0.020	0.001	0.183	0.184	3.183	0.555	0.00	0.00
36.830	29.36	0.05	0.019	0.001	0.052	0.208	3.323	0.581	0.00	0.00

Table 7. Boundary Layer Measurements at 25.1% Chord on the Pressure Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	5.60	0.48	0.218	0.036	0.790	1.433	10.340	16.860	0.00	0.00
0.318	8.23	0.59	0.156	0.017	0.368	0.294	5.425	1.413	0.00	0.00
0.381	10.54	0.87	0.148	0.019	0.693	0.337	6.009	1.326	0.00	0.00
0.444	13.60	0.63	0.148	0.017	0.663	0.269	5.047	0.401	0.00	0.00
0.508	16.06	0.85	0.137	0.029	-0.327	0.739	5.577	0.966	0.00	0.00
0.572	18.52	0.44	0.098	0.012	-0.637	0.619	6.449	1.972	0.00	0.00
0.635	20.14	0.53	0.073	0.011	-0.695	0.604	6.612	2.565	0.00	0.00
0.762	22.35	0.29	0.057	0.009	-3.305	1.750	28.340	18.150	0.00	0.00
0.889	23.57	0.20	0.030	0.008	-1.139	1.623	10.710	11.830	0.00	0.00
1.016	24.11	0.06	0.022	0.002	0.012	0.264	3.947	1.275	0.00	0.00
1.270	24.36	0.05	0.021	0.002	-0.013	0.281	3.374	0.597	0.00	0.00
1.524	24.41	0.05	0.021	0.002	-0.167	0.370	3.212	0.699	0.00	0.00
2.032	24.46	0.05	0.020	0.001	0.052	0.329	3.180	0.358	0.00	0.00
2.540	24.57	0.04	0.019	0.001	0.098	0.309	3.284	0.923	0.00	0.00
3.810	24.65	0.03	0.019	0.001	0.007	0.116	3.135	0.423	0.00	0.00
5.080	24.75	0.05	0.020	0.002	-0.025	0.131	2.858	0.265	0.00	0.00
6.350	24.92	0.07	0.020	0.001	0.081	0.183	3.052	0.340	0.00	0.00
7.620	25.03	0.06	0.020	0.001	0.192	0.248	3.172	0.822	0.00	0.00
8.890	25.19	0.05	0.019	0.001	0.123	0.302	3.055	0.298	0.00	0.00
10.160	25.32	0.08	0.020	0.002	0.351	0.267	3.567	1.037	0.00	0.00
11.430	25.47	0.04	0.019	0.001	-0.050	0.128	2.925	0.261	0.00	0.00
12.700	25.58	0.07	0.020	0.001	0.082	0.305	3.291	0.621	0.00	0.00
13.970	25.68	0.06	0.019	0.001	0.010	0.298	2.993	0.432	0.00	0.00
15.240	25.85	0.04	0.020	0.002	0.227	0.135	2.892	0.324	0.00	0.00
16.510	25.95	0.02	0.019	0.001	0.013	0.099	3.098	0.300	0.00	0.00
17.780	26.11	0.04	0.019	0.002	0.013	0.169	3.078	0.137	0.00	0.00
19.050	26.25	0.07	0.019	0.001	0.117	0.257	2.943	0.243	0.00	0.00
20.320	26.39	0.05	0.019	0.002	0.170	0.309	3.310	0.546	0.00	0.00
21.590	26.53	0.03	0.019	0.002	0.221	0.239	3.582	1.137	0.00	0.00
22.860	26.67	0.04	0.019	0.001	-0.014	0.143	3.049	0.329	0.00	0.00
24.130	26.73	0.05	0.019	0.001	0.127	0.120	2.965	0.277	0.00	0.00
25.400	26.92	0.10	0.019	0.002	0.029	0.153	3.013	0.420	0.00	0.00
26.670	27.06	0.07	0.020	0.002	0.036	0.130	2.921	0.474	0.00	0.00
27.940	27.22	0.06	0.020	0.001	0.163	0.171	3.095	0.367	0.00	0.00
29.210	27.32	0.07	0.020	0.001	0.232	0.201	3.403	0.662	0.00	0.00
30.480	27.51	0.07	0.020	0.001	0.210	0.281	3.113	0.652	0.00	0.00
31.750	27.65	0.02	0.020	0.001	0.112	0.277	2.960	0.334	0.00	0.00
33.020	27.80	0.07	0.019	0.001	0.163	0.132	3.093	0.423	0.00	0.00
34.290	27.94	0.06	0.020	0.000	0.164	0.230	3.248	0.773	0.00	0.00

Table 7. (Continued)

35.560	28.05	0.05	0.020	0.001	0.265	0.283	3.768	1.359	0.00	0.00
36.830	28.22	0.08	0.021	0.001	0.009	0.412	3.803	1.380	0.00	0.00
38.100	28.36	0.11	0.020	0.002	0.128	0.172	3.185	0.500	0.00	0.00

Table 8. Boundary Layer Measurements at 35.8% Chord on the Pressure Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.381	5.06	0.90	0.260	0.057	0.857	0.969	6.307	6.745	0.00	0.00
0.508	8.43	0.77	0.205	0.018	0.569	0.559	3.888	3.426	0.00	0.00
0.635	12.27	1.01	0.199	0.027	0.067	0.299	3.062	1.659	0.00	0.00
0.762	16.72	0.95	0.158	0.023	-0.806	0.617	4.217	2.580	0.00	0.00
0.889	19.34	0.96	0.110	0.016	-1.384	0.864	7.017	4.403	0.00	0.00
1.016	21.48	0.55	0.081	0.021	-2.326	1.308	15.200	9.532	0.00	0.00
1.143	22.73	0.26	0.058	0.014	-3.323	2.110	25.060	18.010	0.00	0.00
1.270	23.45	0.16	0.040	0.007	-4.125	3.455	42.380	43.490	0.00	0.00
1.524	24.03	0.10	0.020	0.002	0.040	0.199	2.526	1.316	0.00	0.00
2.032	24.14	0.06	0.022	0.002	-0.107	0.546	3.663	2.868	0.00	0.00
2.540	24.19	0.05	0.021	0.002	0.253	0.565	3.362	2.491	0.00	0.00
3.810	24.26	0.05	0.019	0.001	0.136	0.223	2.492	1.332	0.00	0.00
5.080	24.37	0.04	0.020	0.002	0.034	0.240	2.547	1.324	0.00	0.00
6.350	24.48	0.05	0.020	0.001	0.140	0.338	3.135	1.861	0.00	0.00
7.620	24.68	0.07	0.020	0.002	-0.069	0.490	4.287	2.632	0.00	0.00
8.890	24.73	0.05	0.020	0.001	0.083	0.188	3.315	0.689	0.00	0.00
10.160	24.86	0.10	0.019	0.001	0.042	0.250	3.164	0.566	0.00	0.00
11.430	24.98	0.09	0.019	0.002	0.090	0.197	3.010	0.176	0.00	0.00
12.700	25.15	0.06	0.019	0.002	0.158	0.252	3.262	0.647	0.00	0.00
13.970	25.24	0.09	0.019	0.002	0.217	0.080	3.182	0.246	0.00	0.00
15.240	25.40	0.09	0.020	0.001	0.176	0.097	3.134	0.712	0.00	0.00
16.510	25.52	0.04	0.019	0.001	0.070	0.141	2.908	0.387	0.00	0.00
17.780	25.65	0.07	0.019	0.001	0.052	0.145	2.859	0.260	0.00	0.00
19.050	25.80	0.02	0.019	0.001	0.040	0.276	2.958	0.359	0.00	0.00
20.320	25.88	0.09	0.020	0.002	0.084	0.152	3.276	0.561	0.00	0.00
21.590	26.05	0.08	0.020	0.002	0.143	0.455	4.049	2.029	0.00	0.00
22.860	26.14	0.09	0.019	0.001	0.009	0.178	2.987	0.380	0.00	0.00
24.130	26.29	0.10	0.019	0.002	0.120	0.195	2.933	0.357	0.00	0.00
25.400	26.39	0.07	0.019	0.001	0.317	0.396	3.667	2.111	0.00	0.00
26.670	26.50	0.07	0.019	0.002	0.123	0.194	2.900	0.488	0.00	0.00
27.940	26.65	0.10	0.019	0.001	0.027	0.134	3.481	0.575	0.00	0.00
29.210	26.80	0.13	0.020	0.002	0.115	0.122	2.805	0.357	0.00	0.00
30.480	26.89	0.06	0.019	0.001	0.058	0.214	3.209	0.390	0.00	0.00
31.750	26.99	0.07	0.018	0.002	0.150	0.109	3.165	0.507	0.00	0.00
33.020	27.16	0.07	0.018	0.001	-0.027	0.088	2.841	0.333	0.00	0.00
34.290	27.32	0.09	0.020	0.004	0.023	0.255	3.305	0.861	0.00	0.00
35.560	27.44	0.09	0.020	0.001	0.164	0.259	3.340	0.542	0.00	0.00
36.830	27.57	0.07	0.020	0.001	0.042	0.108	3.047	0.474	0.00	0.00
38.100	27.74	0.07	0.020	0.002	0.102	0.205	2.930	0.331	0.00	0.00

Table 9. Boundary Layer Measurements at 46.5% Chord on the Pressure Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	2.23	0.70	0.413	0.092	1.024	0.538	5.546	2.381	0.00	0.00
0.381	5.22	0.42	0.279	0.034	1.352	0.700	9.525	5.623	0.02	0.04
0.508	7.72	0.65	0.292	0.030	0.936	0.314	5.438	1.158	0.00	0.00
0.635	10.64	0.93	0.316	0.028	0.412	0.267	3.184	0.310	0.00	0.00
0.762	13.58	1.23	0.294	0.034	-0.158	0.251	2.391	0.146	0.00	0.00
0.889	16.29	0.64	0.259	0.026	-0.782	0.157	2.768	0.294	0.00	0.00
1.016	18.95	0.67	0.208	0.022	-1.532	0.218	4.724	0.745	0.00	0.00
1.143	20.87	0.53	0.156	0.019	-2.475	0.374	9.199	2.098	0.00	0.00
1.270	22.09	0.33	0.121	0.011	-3.620	0.488	17.450	4.140	0.00	0.00
1.397	22.89	0.21	0.085	0.012	-5.121	1.064	35.060	15.030	0.00	0.00
1.524	23.14	0.15	0.083	0.012	-5.351	0.637	36.740	7.343	0.00	0.00
1.651	23.51	0.11	0.055	0.012	-7.092	1.383	70.420	26.570	0.00	0.00
1.778	23.65	0.08	0.048	0.014	-7.524	1.332	85.800	31.820	0.00	0.00
1.905	23.71	0.11	0.042	0.011	-8.716	2.957	130.900	81.070	0.00	0.00
2.032	23.78	0.05	0.036	0.009	-8.232	2.612	119.500	63.000	0.00	0.00
2.159	23.76	0.04	0.042	0.013	-7.487	2.988	92.850	50.290	0.00	0.00
2.286	23.81	0.06	0.033	0.009	-6.898	2.094	93.140	40.380	0.00	0.00
2.413	23.83	0.04	0.035	0.013	-6.891	4.792	97.100	75.950	0.00	0.00
2.540	23.87	0.07	0.026	0.011	-2.290	3.648	30.940	42.540	0.00	0.00
3.175	23.91	0.07	0.033	0.019	-3.501	4.382	39.950	47.300	0.00	0.00
3.810	24.01	0.03	0.021	0.002	0.235	0.431	3.733	2.168	0.00	0.00
5.080	24.11	0.05	0.020	0.001	-0.010	0.154	3.118	1.064	0.00	0.00
6.350	24.25	0.07	0.019	0.002	0.002	0.161	3.157	0.468	0.00	0.00
7.620	24.35	0.04	0.020	0.000	0.088	0.193	2.903	0.407	0.00	0.00
8.890	24.42	0.06	0.020	0.002	-0.011	0.267	3.043	0.432	0.00	0.00
10.160	24.58	0.08	0.021	0.002	0.081	0.389	3.550	0.907	0.00	0.00
11.430	24.75	0.06	0.019	0.001	0.123	0.129	3.254	0.476	0.00	0.00
12.700	24.83	0.03	0.021	0.002	0.053	0.096	3.183	0.500	0.00	0.00
13.970	24.95	0.06	0.020	0.001	0.140	0.104	3.259	0.424	0.00	0.00
15.240	25.10	0.06	0.020	0.001	0.215	0.060	3.035	0.348	0.00	0.00
16.510	25.21	0.05	0.021	0.001	0.033	0.277	3.185	0.314	0.00	0.00
17.780	25.33	0.10	0.020	0.001	0.142	0.120	2.843	0.164	0.00	0.00
19.050	25.47	0.04	0.021	0.001	0.184	0.207	3.061	0.422	0.00	0.00
20.320	25.57	0.06	0.020	0.001	0.036	0.174	3.200	0.712	0.00	0.00
21.590	25.70	0.07	0.020	0.001	0.149	0.192	3.046	0.392	0.00	0.00
22.860	25.84	0.07	0.020	0.002	-0.110	0.166	2.894	0.200	0.00	0.00
24.130	25.98	0.06	0.020	0.002	0.259	0.283	3.538	1.068	0.00	0.00
25.400	26.13	0.06	0.020	0.000	0.154	0.263	3.083	0.381	0.00	0.00
26.670	26.21	0.08	0.020	0.001	0.090	0.115	2.885	0.395	0.00	0.00

Table 9. (Continued)

27.940	26.31	0.08	0.020	0.002	0.067	0.118	3.009	0.331	0.00	0.00
29.210	26.46	0.07	0.021	0.002	-0.047	0.515	3.563	2.563	0.00	0.00
30.480	26.59	0.06	0.021	0.001	0.051	0.289	3.320	0.574	0.00	0.00
31.750	26.67	0.07	0.021	0.001	0.133	0.109	2.954	0.210	0.00	0.00
33.020	26.87	0.09	0.022	0.001	-0.056	0.532	3.852	1.787	0.00	0.00
34.290	26.98	0.05	0.021	0.001	0.082	0.219	2.947	0.322	0.00	0.00
35.560	27.11	0.07	0.021	0.002	0.085	0.138	3.001	0.463	0.00	0.00
36.830	27.22	0.07	0.021	0.001	-0.120	0.237	3.139	0.429	0.00	0.00
38.100	27.38	0.09	0.021	0.002	0.120	0.175	3.400	0.472	0.00	0.00

Table 10. Boundary Layer Measurements at 57.2% Chord on the Pressure Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	2.29	1.43	0.683	0.159	2.557	1.050	15.340	11.610	0.00	0.00
0.381	5.65	0.82	0.462	0.071	1.664	0.360	8.374	3.594	0.00	0.00
0.508	7.92	0.67	0.441	0.040	1.227	0.175	4.921	0.780	0.00	0.00
0.635	9.77	0.91	0.431	0.043	0.657	0.227	2.968	0.533	0.00	0.00
0.762	11.91	0.85	0.405	0.029	0.233	0.177	2.144	0.155	0.00	0.00
0.889	13.65	1.05	0.381	0.027	0.011	0.259	1.928	0.117	0.00	0.00
1.016	15.88	1.07	0.342	0.031	-0.414	0.298	1.989	0.295	0.00	0.00
1.143	17.35	1.30	0.319	0.041	-0.730	0.379	2.312	0.601	0.00	0.00
1.270	19.04	0.72	0.270	0.026	-1.145	0.270	3.101	0.768	0.00	0.00
1.397	20.33	0.97	0.234	0.039	-1.662	0.470	4.782	1.698	0.00	0.00
1.524	21.32	0.41	0.195	0.019	-2.125	0.255	6.550	1.226	0.00	0.00
1.651	21.71	0.38	0.184	0.020	-2.345	0.309	7.735	1.753	0.00	0.00
1.778	22.34	0.19	0.148	0.013	-2.954	0.248	11.480	1.760	0.00	0.00
1.905	22.77	0.23	0.118	0.019	-3.761	0.476	18.330	3.886	0.00	0.00
2.032	22.93	0.22	0.107	0.020	-4.057	0.572	21.350	5.477	0.00	0.00
2.159	23.15	0.11	0.090	0.011	-4.668	0.568	27.890	5.553	0.00	0.00
2.286	23.25	0.20	0.081	0.026	-4.707	0.830	30.370	10.210	0.00	0.00
2.413	23.41	0.18	0.057	0.026	-5.202	2.263	48.320	29.990	0.00	0.00
2.540	23.61	0.06	0.026	0.003	-0.271	0.480	3.660	1.181	0.00	0.00
3.175	23.68	0.04	0.026	0.005	-0.058	0.355	3.194	0.540	0.00	0.00
3.810	23.77	0.05	0.024	0.002	0.006	0.166	3.302	0.554	0.00	0.00
5.080	23.82	0.06	0.025	0.002	0.106	0.310	2.973	0.320	0.00	0.00
6.350	23.96	0.07	0.024	0.001	0.182	0.245	3.288	0.487	0.00	0.00
7.620	24.10	0.05	0.023	0.002	0.056	0.279	3.052	0.452	0.00	0.00
8.890	24.27	0.07	0.024	0.002	0.144	0.142	2.892	0.295	0.00	0.00
10.160	24.37	0.04	0.024	0.001	0.097	0.098	2.785	0.291	0.00	0.00
11.430	24.45	0.04	0.024	0.003	-0.038	0.067	2.992	0.104	0.00	0.00
12.700	24.59	0.09	0.024	0.002	0.126	0.316	3.488	0.733	0.00	0.00
13.970	24.72	0.07	0.023	0.002	0.199	0.222	3.229	0.599	0.00	0.00
15.240	24.82	0.06	0.024	0.002	0.205	0.296	3.347	0.442	0.00	0.00
16.510	24.92	0.07	0.023	0.002	0.057	0.202	2.858	0.279	0.00	0.00
17.780	25.10	0.06	0.024	0.002	0.097	0.131	3.026	0.296	0.00	0.00
19.050	25.19	0.06	0.023	0.002	0.109	0.221	3.101	0.344	0.00	0.00
20.320	25.31	0.07	0.024	0.002	0.015	0.211	2.931	0.425	0.00	0.00
21.590	25.42	0.07	0.024	0.003	-0.014	0.247	2.929	0.417	0.00	0.00
22.860	25.51	0.08	0.024	0.001	0.137	0.194	3.000	0.296	0.00	0.00
24.130	25.66	0.03	0.023	0.002	-0.003	0.250	3.023	0.293	0.00	0.00
25.400	25.75	0.10	0.024	0.001	0.162	0.125	2.930	0.315	0.00	0.00
26.670	25.91	0.08	0.023	0.002	-0.034	0.170	3.040	0.468	0.00	0.00

Table 10. (Continued)

27.940	26.00	0.09	0.024	0.002	0.018	0.111	2.828	0.168	0.00	0.00
29.210	26.13	0.06	0.024	0.002	0.006	0.215	3.036	0.327	0.00	0.00
30.480	26.26	0.08	0.023	0.002	0.064	0.160	3.104	0.345	0.00	0.00
31.750	26.38	0.04	0.024	0.002	0.141	0.252	3.079	0.399	0.00	0.00
33.020	26.49	0.11	0.023	0.001	-0.040	0.133	3.047	0.294	0.00	0.00
34.290	26.59	0.11	0.023	0.002	0.101	0.257	3.269	0.361	0.00	0.00
35.560	26.73	0.05	0.023	0.001	0.071	0.195	3.038	0.150	0.00	0.00
36.830	26.86	0.11	0.023	0.001	0.148	0.170	3.042	0.496	0.00	0.00
38.100	26.96	0.09	0.024	0.001	0.118	0.240	2.876	0.226	0.00	0.00

Table 11. Boundary Layer Measurements at 68.0% Chord on the Pressure Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.318	6.86	1.03	0.474	0.035	1.193	0.341	4.905	1.483	0.00	0.00
0.381	8.30	1.02	0.449	0.017	0.997	0.380	3.943	1.165	0.00	0.00
0.508	10.86	0.65	0.411	0.013	0.523	0.267	2.618	0.320	0.00	0.00
0.635	12.60	0.29	0.376	0.012	0.244	0.127	2.171	0.119	0.00	0.00
0.762	14.12	0.26	0.338	0.018	0.033	0.067	2.017	0.230	0.00	0.00
0.889	15.02	0.21	0.314	0.019	-0.021	0.086	2.019	0.261	0.00	0.00
1.016	16.23	0.37	0.300	0.025	-0.222	0.081	1.937	0.286	0.00	0.00
1.143	17.30	0.34	0.282	0.026	-0.400	0.109	2.010	0.349	0.00	0.00
1.270	18.36	0.38	0.264	0.024	-0.591	0.137	2.123	0.225	0.00	0.00
1.397	19.34	0.42	0.242	0.022	-0.821	0.167	2.436	0.236	0.00	0.00
1.524	20.36	0.67	0.216	0.013	-1.214	0.272	3.358	0.464	0.00	0.00
1.651	20.98	0.58	0.196	0.017	-1.426	0.354	4.031	0.977	0.00	0.00
1.778	21.64	0.50	0.174	0.017	-1.825	0.340	5.538	1.112	0.00	0.00
1.905	22.24	0.40	0.149	0.011	-2.291	0.484	7.807	2.234	0.00	0.00
2.032	22.53	0.37	0.135	0.015	-2.591	0.499	9.673	2.689	0.00	0.00
2.159	22.97	0.34	0.109	0.018	-3.207	0.716	14.790	6.022	0.00	0.00
2.286	23.12	0.19	0.095	0.011	-3.546	0.448	17.710	3.693	0.00	0.00
2.413	23.28	0.08	0.085	0.004	-3.845	0.236	20.910	2.173	0.00	0.00
2.540	23.45	0.11	0.072	0.011	-4.146	0.253	25.230	2.902	0.00	0.00
3.175	23.81	0.07	0.032	0.009	-0.814	2.091	9.788	16.570	0.00	0.00
3.810	23.90	0.07	0.027	0.001	-0.088	0.303	3.339	1.102	0.00	0.00
5.080	24.02	0.09	0.025	0.002	0.073	0.157	3.209	0.265	0.00	0.00
6.350	24.10	0.10	0.026	0.002	0.043	0.284	3.073	0.389	0.00	0.00
7.620	24.23	0.10	0.026	0.001	0.035	0.313	3.404	0.631	0.00	0.00
8.890	24.36	0.11	0.027	0.002	-0.063	0.130	3.204	0.414	0.00	0.00
10.160	24.44	0.05	0.028	0.002	0.054	0.197	2.962	0.500	0.00	0.00
11.430	24.57	0.07	0.027	0.002	-0.049	0.195	2.982	0.494	0.00	0.00
12.700	24.68	0.04	0.026	0.002	0.046	0.265	2.967	0.271	0.00	0.00
13.970	24.79	0.04	0.025	0.002	0.049	0.167	2.919	0.318	0.00	0.00
15.240	24.91	0.05	0.026	0.001	-0.003	0.160	2.911	0.276	0.00	0.00
16.510	25.05	0.14	0.026	0.002	0.126	0.273	3.069	0.338	0.00	0.00
17.780	25.18	0.11	0.027	0.003	-0.020	0.204	3.344	0.442	0.00	0.00
19.050	25.28	0.10	0.025	0.002	0.159	0.243	3.291	0.625	0.00	0.00
20.320	25.38	0.10	0.025	0.002	-0.071	0.306	2.911	0.402	0.00	0.00
21.590	25.48	0.12	0.025	0.002	-0.089	0.108	3.250	0.603	0.00	0.00
22.860	25.60	0.13	0.026	0.002	0.039	0.392	3.448	0.786	0.00	0.00
24.130	25.70	0.14	0.027	0.003	-0.026	0.166	2.889	0.313	0.00	0.00
25.400	25.81	0.09	0.024	0.002	-0.121	0.185	3.152	0.312	0.00	0.00
26.670	25.93	0.07	0.025	0.001	0.076	0.283	3.270	0.622	0.00	0.00

Table 11. (Continued)

27.940	26.00	0.12	0.026	0.002	0.097	0.176	3.059	0.424	0.00	0.00
29.210	26.15	0.08	0.026	0.002	-0.057	0.180	3.236	0.324	0.00	0.00
30.480	26.28	0.06	0.026	0.002	0.140	0.162	3.269	0.314	0.00	0.00
31.750	26.37	0.09	0.026	0.000	0.237	0.187	3.251	0.334	0.00	0.00
33.020	26.51	0.13	0.024	0.001	0.104	0.254	3.352	0.325	0.00	0.00
34.290	26.64	0.06	0.026	0.003	0.152	0.226	2.902	0.452	0.00	0.00
35.560	26.72	0.14	0.027	0.002	0.012	0.218	3.193	0.473	0.00	0.00
36.830	26.83	0.09	0.026	0.001	-0.001	0.257	3.136	0.477	0.00	0.00
38.100	26.97	0.11	0.027	0.002	0.131	0.138	2.996	0.203	0.00	0.00

Table 12. Boundary Layer Measurements at 78.6% Chord on the Pressure Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.318	11.72	1.23	0.367	0.041	0.393	0.244	2.417	0.239	0.00	0.00
0.381	13.10	1.05	0.336	0.040	0.217	0.238	2.222	0.108	0.00	0.00
0.508	15.34	0.56	0.284	0.035	-0.155	0.143	2.200	0.220	0.00	0.00
0.635	16.74	0.58	0.237	0.036	-0.336	0.077	2.474	0.295	0.00	0.00
0.762	17.45	0.59	0.219	0.031	-0.433	0.116	2.729	0.502	0.00	0.00
0.889	18.32	0.56	0.197	0.032	-0.582	0.147	2.970	0.628	0.00	0.00
1.016	18.77	0.46	0.197	0.029	-0.534	0.082	2.676	0.335	0.00	0.00
1.143	19.33	0.33	0.183	0.021	-0.634	0.119	2.946	0.513	0.00	0.00
1.270	19.63	0.26	0.182	0.020	-0.701	0.101	3.171	0.817	0.00	0.00
1.397	20.24	0.47	0.173	0.022	-0.832	0.235	3.214	0.810	0.00	0.00
1.524	20.82	0.33	0.160	0.023	-0.978	0.163	3.492	0.643	0.00	0.00
1.651	21.45	0.24	0.140	0.019	-1.266	0.138	4.515	0.952	0.00	0.00
1.778	21.80	0.48	0.132	0.031	-1.362	0.312	5.140	2.167	0.00	0.00
1.905	22.33	0.41	0.116	0.028	-1.587	0.238	5.635	1.250	0.00	0.00
2.032	22.67	0.20	0.103	0.017	-1.804	0.339	6.709	1.543	0.00	0.00
2.159	22.85	0.21	0.100	0.015	-2.009	0.397	7.706	2.222	0.00	0.00
2.286	23.16	0.09	0.083	0.008	-2.147	0.318	9.004	1.865	0.00	0.00
2.413	23.34	0.15	0.077	0.005	-2.552	0.558	12.430	4.464	0.00	0.00
2.540	23.54	0.09	0.069	0.006	-2.734	0.538	13.510	3.713	0.00	0.00
3.175	23.96	0.09	0.046	0.006	-3.858	0.683	30.580	11.670	0.00	0.00
3.810	24.18	0.07	0.031	0.005	-2.318	1.586	22.590	15.090	0.00	0.00
4.445	24.29	0.07	0.027	0.004	-1.850	2.050	23.290	22.230	0.00	0.00
5.080	24.33	0.05	0.023	0.002	-0.121	0.237	3.039	0.375	0.00	0.00
6.350	24.48	0.10	0.023	0.001	-0.015	0.261	3.408	0.552	0.00	0.00
7.620	24.62	0.09	0.024	0.001	0.117	0.122	2.900	0.570	0.00	0.00
8.890	24.73	0.11	0.023	0.001	0.138	0.192	2.979	0.342	0.00	0.00
10.160	24.87	0.07	0.023	0.002	0.020	0.208	2.947	0.362	0.00	0.00
11.430	24.96	0.06	0.023	0.001	-0.035	0.211	2.918	0.325	0.00	0.00
12.700	25.08	0.13	0.023	0.001	0.095	0.176	2.903	0.229	0.00	0.00
13.970	25.19	0.10	0.023	0.002	-0.075	0.215	2.807	0.278	0.00	0.00
15.240	25.32	0.10	0.023	0.001	-0.127	0.094	3.094	0.458	0.00	0.00
16.510	25.44	0.10	0.023	0.002	0.040	0.128	3.102	0.366	0.00	0.00
17.780	25.52	0.08	0.023	0.002	0.135	0.159	3.060	0.444	0.00	0.00
19.050	25.64	0.08	0.024	0.002	-0.050	0.255	3.298	0.629	0.00	0.00
20.320	25.77	0.07	0.024	0.002	0.089	0.202	3.052	0.338	0.00	0.00
21.590	25.87	0.09	0.024	0.001	0.037	0.245	3.211	0.805	0.00	0.00
22.860	25.98	0.08	0.024	0.001	-0.005	0.200	3.097	0.507	0.00	0.00
24.130	26.04	0.07	0.024	0.001	0.008	0.164	2.910	0.308	0.00	0.00
25.400	26.15	0.03	0.024	0.002	-0.102	0.156	3.051	0.287	0.00	0.00

Table 12. (Continued)

26.670	26.23	0.08	0.023	0.001	0.071	0.153	2.937	0.373	0.00	0.00
27.940	26.39	0.09	0.023	0.001	0.138	0.097	2.875	0.244	0.00	0.00
29.210	26.49	0.06	0.024	0.001	0.076	0.199	2.992	0.440	0.00	0.00
30.480	26.61	0.03	0.024	0.002	-0.064	0.119	3.288	0.499	0.00	0.00
31.750	26.68	0.07	0.024	0.001	-0.042	0.211	3.305	0.497	0.00	0.00
33.020	26.78	0.05	0.024	0.001	0.029	0.183	3.301	0.474	0.00	0.00
34.290	26.92	0.03	0.024	0.002	0.046	0.262	3.138	0.350	0.00	0.00
35.560	26.98	0.04	0.025	0.002	0.014	0.217	3.029	0.324	0.00	0.00
36.830	27.07	0.06	0.024	0.001	0.048	0.190	2.813	0.362	0.00	0.00
38.100	27.20	0.07	0.024	0.001	0.050	0.312	2.938	0.244	0.00	0.00

Table 13. Boundary Layer Measurements at 89.3% Chord on the Pressure Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	12.52	1.30	0.329	0.018	0.466	0.267	2.573	0.529	0.00	0.00
0.318	14.57	1.11	0.291	0.026	0.187	0.166	2.097	0.079	0.00	0.00
0.381	16.08	0.75	0.258	0.018	-0.055	0.099	2.100	0.100	0.00	0.00
0.508	17.98	0.59	0.205	0.011	-0.274	0.112	2.309	0.066	0.00	0.00
0.635	19.29	0.40	0.175	0.011	-0.464	0.108	2.651	0.153	0.00	0.00
0.762	20.18	0.35	0.153	0.013	-0.563	0.094	2.937	0.293	0.00	0.00
0.889	20.86	0.18	0.138	0.009	-0.660	0.112	3.250	0.417	0.00	0.00
1.016	21.36	0.26	0.124	0.010	-0.708	0.210	3.526	0.990	0.00	0.00
1.143	21.85	0.21	0.114	0.009	-0.612	0.125	3.037	0.266	0.00	0.00
1.270	22.15	0.26	0.110	0.008	-0.729	0.216	3.386	0.604	0.00	0.00
1.397	22.45	0.30	0.103	0.006	-0.748	0.208	3.577	0.461	0.00	0.00
1.524	22.61	0.27	0.103	0.011	-0.909	0.141	4.106	0.625	0.00	0.00
1.651	23.00	0.30	0.093	0.007	-1.052	0.301	4.789	1.397	0.00	0.00
1.778	23.26	0.30	0.087	0.010	-0.868	0.158	3.580	0.337	0.00	0.00
1.905	23.55	0.22	0.085	0.008	-1.172	0.263	4.779	0.948	0.00	0.00
2.032	23.72	0.18	0.080	0.006	-1.095	0.105	4.292	0.363	0.00	0.00
2.159	23.93	0.22	0.076	0.006	-1.371	0.160	5.767	0.995	0.00	0.00
2.286	24.13	0.24	0.071	0.008	-1.396	0.323	5.802	1.924	0.00	0.00
2.413	24.32	0.17	0.066	0.006	-1.612	0.176	7.187	1.597	0.00	0.00
2.540	24.49	0.18	0.061	0.006	-1.726	0.300	8.069	2.606	0.00	0.00
3.175	25.04	0.07	0.044	0.004	-2.130	0.463	12.510	4.591	0.00	0.00
3.810	25.37	0.08	0.031	0.002	-1.493	0.887	12.940	9.413	0.00	0.00
4.445	25.45	0.12	0.027	0.001	-0.337	0.317	3.881	0.935	0.00	0.00
5.080	25.58	0.11	0.025	0.002	-0.078	0.350	3.051	0.198	0.00	0.00
6.350	25.65	0.12	0.024	0.002	-0.108	0.092	2.835	0.368	0.00	0.00
7.620	25.81	0.12	0.025	0.002	-0.089	0.307	3.300	0.472	0.00	0.00
8.890	25.94	0.13	0.024	0.001	0.104	0.230	3.076	0.378	0.00	0.00
10.160	26.00	0.14	0.025	0.001	-0.078	0.287	3.055	0.620	0.00	0.00
11.430	26.12	0.12	0.024	0.002	0.110	0.273	3.223	0.659	0.00	0.00
12.700	26.24	0.11	0.022	0.001	-0.011	0.146	2.988	0.239	0.00	0.00
13.970	26.32	0.09	0.023	0.003	-0.097	0.248	3.170	1.001	0.00	0.00
15.240	26.42	0.11	0.024	0.002	-0.008	0.121	2.865	0.196	0.00	0.00
16.510	26.47	0.06	0.023	0.002	0.025	0.164	2.987	0.290	0.00	0.00
17.780	26.54	0.10	0.024	0.000	-0.006	0.299	3.272	0.763	0.00	0.00
19.050	26.63	0.12	0.025	0.001	-0.158	0.253	3.297	0.521	0.00	0.00
20.320	26.65	0.08	0.025	0.002	0.089	0.101	3.138	0.450	0.00	0.00
21.590	26.72	0.08	0.025	0.002	0.039	0.158	2.847	0.198	0.00	0.00
22.860	26.77	0.07	0.024	0.002	0.008	0.327	3.284	0.734	0.00	0.00
24.130	26.91	0.07	0.025	0.003	-0.024	0.248	3.056	0.288	0.00	0.00

Table 13. (Continued)

25.400	26.97	0.09	0.024	0.001	-0.095	0.187	3.106	0.587	0.00	0.00
26.670	27.05	0.12	0.024	0.002	-0.167	0.237	3.153	0.371	0.00	0.00
27.940	27.12	0.12	0.025	0.003	-0.248	0.171	3.441	0.235	0.00	0.00
29.210	27.20	0.12	0.026	0.002	-0.002	0.124	2.848	0.387	0.00	0.00
30.480	27.25	0.12	0.024	0.002	0.028	0.302	3.252	0.374	0.00	0.00
31.750	27.29	0.13	0.025	0.001	0.013	0.143	2.931	0.395	0.00	0.00
33.020	27.45	0.07	0.025	0.002	-0.191	0.253	3.516	0.445	0.00	0.00
34.290	27.48	0.08	0.026	0.002	-0.086	0.267	3.051	0.257	0.00	0.00
35.560	27.56	0.11	0.027	0.002	0.123	0.216	3.291	0.385	0.00	0.00
36.830	27.58	0.06	0.027	0.003	-0.078	0.187	3.038	0.173	0.00	0.00
38.100	27.66	0.12	0.025	0.002	-0.032	0.282	3.115	0.516	0.00	0.00

Table 14. Boundary Layer Measurements at 97.9% Chord on the Pressure Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.064	17.76	2.00	0.234	0.036	0.110	0.258	2.211	0.181	0.00	0.00
0.127	19.57	1.11	0.201	0.025	-0.144	0.184	2.174	0.163	0.00	0.00
0.254	21.75	0.64	0.155	0.013	-0.488	0.103	2.665	0.224	0.00	0.00
0.318	22.38	0.66	0.141	0.014	-0.603	0.178	3.022	0.726	0.00	0.00
0.381	22.73	0.65	0.132	0.016	-0.621	0.158	3.116	0.672	0.00	0.00
0.508	23.47	0.67	0.118	0.016	-0.814	0.332	3.942	1.434	0.00	0.00
0.635	23.96	0.44	0.108	0.013	-0.828	0.483	4.230	2.481	0.00	0.00
0.762	24.42	0.53	0.103	0.014	-0.986	0.338	4.846	1.576	0.00	0.00
0.889	24.91	0.35	0.093	0.010	-0.952	0.429	5.053	2.184	0.00	0.00
1.016	25.22	0.38	0.087	0.008	-0.961	0.290	4.934	1.415	0.00	0.00
1.143	25.45	0.25	0.084	0.008	-1.022	0.356	5.185	1.693	0.00	0.00
1.270	25.57	0.39	0.086	0.012	-1.382	0.806	7.473	6.299	0.00	0.00
1.397	26.04	0.23	0.076	0.011	-1.264	0.542	6.587	3.402	0.00	0.00
1.524	26.30	0.33	0.072	0.012	-1.275	0.618	7.133	3.905	0.00	0.00
1.651	26.45	0.23	0.072	0.011	-1.533	0.815	8.262	5.415	0.00	0.00
1.778	26.70	0.28	0.067	0.014	-1.456	0.732	7.563	4.392	0.00	0.00
1.905	26.79	0.24	0.067	0.014	-1.602	0.761	8.376	4.545	0.00	0.00
2.032	26.96	0.19	0.063	0.008	-1.676	0.624	9.126	4.703	0.00	0.00
2.159	27.15	0.22	0.059	0.007	-1.834	0.571	10.750	4.669	0.00	0.00
2.286	27.30	0.22	0.055	0.010	-1.704	0.697	9.478	4.804	0.00	0.00
2.413	27.46	0.18	0.054	0.010	-2.023	1.091	11.750	8.668	0.00	0.00
2.540	27.58	0.15	0.050	0.008	-1.935	0.715	10.970	5.581	0.00	0.00
3.175	27.99	0.15	0.038	0.007	-2.076	1.435	14.730	10.740	0.00	0.00
3.810	28.25	0.15	0.027	0.001	-0.244	0.465	4.018	1.385	0.00	0.00
5.080	28.27	0.18	0.023	0.002	-0.116	0.226	3.440	0.955	0.00	0.00
6.350	28.24	0.15	0.024	0.002	-0.008	0.256	2.939	0.331	0.00	0.00
7.620	28.18	0.10	0.023	0.001	-0.093	0.140	2.906	0.631	0.00	0.00
8.890	28.18	0.16	0.024	0.002	-0.119	0.207	3.092	0.288	0.00	0.00
10.160	28.15	0.14	0.024	0.001	0.081	0.217	3.434	0.674	0.00	0.00
11.430	28.14	0.14	0.023	0.002	0.028	0.146	3.034	0.393	0.00	0.00
12.700	28.16	0.15	0.023	0.001	0.095	0.198	2.998	0.242	0.00	0.00
13.970	28.15	0.14	0.023	0.001	0.004	0.169	2.862	0.302	0.00	0.00
15.240	28.13	0.13	0.023	0.001	0.021	0.202	2.987	0.276	0.00	0.00
16.510	28.08	0.17	0.023	0.002	0.086	0.148	3.089	0.276	0.00	0.00
17.780	28.10	0.19	0.023	0.001	-0.007	0.342	3.264	0.517	0.00	0.00
19.050	28.10	0.10	0.024	0.002	-0.104	0.315	3.292	0.347	0.00	0.00
20.320	28.08	0.10	0.024	0.002	-0.008	0.135	2.910	0.278	0.00	0.00
21.590	28.07	0.13	0.023	0.002	-0.160	0.251	3.301	0.624	0.00	0.00
22.860	28.03	0.12	0.024	0.003	0.138	0.213	3.000	0.337	0.00	0.00

Table 14. (Continued)

24.130	28.07	0.15	0.024	0.001	-0.009	0.075	3.265	0.221	0.00	0.00
25.400	28.05	0.17	0.024	0.001	-0.122	0.149	2.821	0.338	0.00	0.00
26.670	28.04	0.21	0.025	0.002	0.075	0.279	3.207	0.423	0.00	0.00
27.940	28.06	0.18	0.024	0.002	-0.011	0.228	2.848	0.151	0.00	0.00
29.210	28.06	0.14	0.026	0.003	-0.005	0.171	2.972	0.498	0.00	0.00
30.480	28.05	0.14	0.025	0.002	0.050	0.203	3.251	0.423	0.00	0.00
31.750	28.15	0.19	0.024	0.001	0.062	0.224	3.078	0.118	0.00	0.00
33.020	28.15	0.20	0.025	0.000	-0.025	0.156	3.001	0.316	0.00	0.00
34.290	28.14	0.21	0.025	0.002	0.046	0.168	3.214	0.356	0.00	0.00
35.560	28.17	0.19	0.024	0.002	0.012	0.241	3.178	0.282	0.00	0.00
36.830	28.22	0.24	0.025	0.002	0.074	0.225	2.746	0.289	0.00	0.00
38.100	28.21	0.26	0.027	0.002	-0.028	0.235	3.152	0.556	0.00	0.00

Table 15. Boundary Layer Measurements at 2.6% Chord on the Suction Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	20.46	0.54	0.240	0.012	----	----	----	----	----	----
0.381	21.60	0.75	0.259	0.016	----	----	----	----	----	----
0.508	23.53	1.14	0.276	0.014	----	----	----	----	----	----
0.635	26.05	0.89	0.278	0.017	----	----	----	----	----	----
0.762	27.96	1.10	0.271	0.016	----	----	----	----	----	----
0.889	30.35	1.41	0.269	0.014	----	----	----	----	----	----
1.016	33.88	1.23	0.248	0.007	----	----	----	----	----	----
1.143	36.63	1.47	0.240	0.013	----	----	----	----	----	----
1.270	39.21	0.91	0.223	0.011	----	----	----	----	----	----
1.397	41.61	1.08	0.202	0.013	----	----	----	----	----	----
1.524	44.68	1.03	0.173	0.013	----	----	----	----	----	----
1.651	46.94	1.11	0.141	0.019	----	----	----	----	----	----
1.778	48.77	1.01	0.113	0.022	----	----	----	----	----	----
2.032	50.83	0.54	0.079	0.020	----	----	----	----	----	----
2.286	51.84	0.24	0.059	0.008	----	----	----	----	----	----
2.540	52.01	0.14	0.052	0.006	----	----	----	----	----	----
3.175	51.35	0.22	0.046	0.009	----	----	----	----	----	----
3.810	50.65	0.22	0.034	0.002	----	----	----	----	----	----
4.445	49.78	0.19	0.031	0.002	----	----	----	----	----	----
5.080	48.96	0.17	0.032	0.005	----	----	----	----	----	----
5.715	48.49	0.21	0.029	0.003	----	----	----	----	----	----
6.350	47.95	0.19	0.027	0.002	----	----	----	----	----	----
7.620	46.86	0.15	0.026	0.003	----	----	----	----	----	----
8.890	46.11	0.19	0.025	0.003	----	----	----	----	----	----
10.160	45.37	0.19	0.025	0.004	----	----	----	----	----	----
11.430	44.76	0.19	0.025	0.002	----	----	----	----	----	----
12.700	44.25	0.17	0.024	0.002	----	----	----	----	----	----
13.970	43.78	0.12	0.023	0.002	----	----	----	----	----	----
15.240	43.33	0.17	0.023	0.002	----	----	----	----	----	----

Table 16. Boundary Layer Measurements at 7.6% Chord on the Suction Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.127	24.48	0.96	0.238	0.016	----	----	----	----	----	----
0.191	25.67	0.57	0.230	0.011	----	----	----	----	----	----
0.254	26.33	0.43	0.228	0.007	----	----	----	----	----	----
0.381	27.43	0.22	0.224	0.012	----	----	----	----	----	----
0.508	28.19	0.38	0.225	0.012	----	----	----	----	----	----
0.635	29.52	0.33	0.221	0.007	----	----	----	----	----	----
0.762	30.59	0.30	0.215	0.008	----	----	----	----	----	----
0.889	31.81	0.52	0.211	0.005	----	----	----	----	----	----
1.016	32.87	0.45	0.208	0.005	----	----	----	----	----	----
1.143	34.25	0.39	0.201	0.004	----	----	----	----	----	----
1.270	35.27	0.46	0.197	0.006	----	----	----	----	----	----
1.397	36.61	0.56	0.185	0.004	----	----	----	----	----	----
1.524	37.81	0.31	0.172	0.005	----	----	----	----	----	----
1.651	38.81	0.48	0.161	0.007	----	----	----	----	----	----
1.778	40.09	0.45	0.144	0.011	----	----	----	----	----	----
1.905	40.87	0.40	0.135	0.008	----	----	----	----	----	----
2.032	41.54	0.32	0.125	0.007	----	----	----	----	----	----
2.159	42.45	0.17	0.106	0.009	----	----	----	----	----	----
2.286	42.94	0.19	0.093	0.011	----	----	----	----	----	----
2.413	43.47	0.37	0.083	0.013	----	----	----	----	----	----
2.540	43.87	0.28	0.075	0.018	----	----	----	----	----	----
3.175	44.81	0.29	0.046	0.006	----	----	----	----	----	----
3.810	45.03	0.30	0.033	0.006	----	----	----	----	----	----
4.445	44.92	0.17	0.031	0.005	----	----	----	----	----	----
5.080	44.86	0.26	0.029	0.009	----	----	----	----	----	----
5.715	44.76	0.25	0.030	0.012	----	----	----	----	----	----
6.350	44.72	0.23	0.026	0.004	----	----	----	----	----	----
7.620	44.46	0.24	0.025	0.004	----	----	----	----	----	----
8.890	44.28	0.30	0.024	0.003	----	----	----	----	----	----
10.160	44.02	0.25	0.023	0.002	----	----	----	----	----	----
11.430	43.81	0.24	0.024	0.002	----	----	----	----	----	----
12.700	43.58	0.30	0.024	0.004	----	----	----	----	----	----
13.970	43.25	0.27	0.023	0.002	----	----	----	----	----	----
15.240	43.00	0.31	0.024	0.002	----	----	----	----	----	----
16.510	42.78	0.27	0.023	0.001	----	----	----	----	----	----
17.780	42.57	0.30	0.023	0.003	----	----	----	----	----	----
19.050	42.31	0.26	0.022	0.002	----	----	----	----	----	----
20.320	42.12	0.20	0.024	0.003	----	----	----	----	----	----
21.590	41.87	0.23	0.024	0.003	----	----	----	----	----	----

Table 16. (Continued)

22.860	41.68	0.24	0.024	0.003	----	----	----	----	----	----

Table 17. Boundary Layer Measurements at 12.7% Chord on the Suction Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.102	21.67	1.24	0.261	0.017	----	----	----	----	----	----
0.152	24.43	0.99	0.225	0.016	----	----	----	----	----	----
0.203	25.78	0.70	0.209	0.006	----	----	----	----	----	----
0.254	27.02	0.40	0.191	0.007	----	----	----	----	----	----
0.318	27.87	0.35	0.184	0.005	----	----	----	----	----	----
0.381	28.63	0.42	0.176	0.004	----	----	----	----	----	----
0.508	29.79	0.20	0.171	0.006	----	----	----	----	----	----
0.635	30.67	0.37	0.168	0.005	----	----	----	----	----	----
0.762	31.34	0.33	0.165	0.003	----	----	----	----	----	----
0.889	32.00	0.39	0.165	0.003	----	----	----	----	----	----
1.016	32.56	0.37	0.161	0.005	----	----	----	----	----	----
1.143	33.42	0.37	0.159	0.006	----	----	----	----	----	----
1.270	34.07	0.32	0.156	0.003	----	----	----	----	----	----
1.397	34.62	0.13	0.156	0.004	----	----	----	----	----	----
1.524	35.14	0.28	0.155	0.004	----	----	----	----	----	----
1.651	35.83	0.41	0.150	0.003	----	----	----	----	----	----
1.778	36.30	0.26	0.150	0.002	----	----	----	----	----	----
1.905	37.26	0.35	0.141	0.004	----	----	----	----	----	----
2.032	37.70	0.41	0.138	0.006	----	----	----	----	----	----
2.286	39.06	0.19	0.125	0.004	----	----	----	----	----	----
2.540	40.10	0.33	0.113	0.006	----	----	----	----	----	----
2.794	41.29	0.28	0.092	0.009	----	----	----	----	----	----
3.048	41.87	0.21	0.087	0.005	----	----	----	----	----	----
3.302	42.69	0.13	0.064	0.010	----	----	----	----	----	----
3.556	43.02	0.22	0.053	0.011	----	----	----	----	----	----
3.810	43.25	0.14	0.045	0.010	----	----	----	----	----	----
4.445	43.62	0.11	0.030	0.005	----	----	----	----	----	----
5.080	43.55	0.13	0.024	0.002	----	----	----	----	----	----
5.715	43.52	0.08	0.022	0.003	----	----	----	----	----	----
6.350	43.39	0.07	0.021	0.001	----	----	----	----	----	----
7.620	43.14	0.07	0.020	0.002	----	----	----	----	----	----
8.890	42.95	0.07	0.020	0.001	----	----	----	----	----	----
10.160	42.70	0.10	0.019	0.001	----	----	----	----	----	----
11.430	42.50	0.06	0.019	0.001	----	----	----	----	----	----
12.700	42.34	0.24	0.019	0.003	----	----	----	----	----	----
13.970	42.10	0.04	0.019	0.002	----	----	----	----	----	----
15.240	41.87	0.05	0.021	0.002	----	----	----	----	----	----
16.510	41.67	0.14	0.019	0.002	----	----	----	----	----	----
17.780	41.55	0.08	0.021	0.001	----	----	----	----	----	----

Table 17. (Continued)

19.050	41.30	0.08	0.019	0.002	----	----	----	----	----	----
20.320	41.11	0.09	0.019	0.002	----	----	----	----	----	----
21.590	40.93	0.12	0.019	0.002	----	----	----	----	----	----
22.860	40.79	0.13	0.018	0.003	----	----	----	----	----	----
24.130	40.64	0.09	0.019	0.001	----	----	----	----	----	----
25.400	40.48	0.12	0.020	0.002	----	----	----	----	----	----
26.670	40.28	0.07	0.019	0.002	----	----	----	----	----	----
27.940	40.15	0.10	0.019	0.001	----	----	----	----	----	----
29.210	40.01	0.10	0.019	0.002	----	----	----	----	----	----
30.480	39.88	0.09	0.019	0.002	----	----	----	----	----	----
31.750	39.76	0.06	0.019	0.002	----	----	----	----	----	----
33.020	39.63	0.12	0.019	0.002	----	----	----	----	----	----
34.290	39.50	0.10	0.020	0.001	----	----	----	----	----	----

Table 18. Boundary Layer Measurements at 23.0% Chord on the Suction Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.127	20.00	0.43	0.271	0.009	----	----	----	----	----	----
0.191	21.76	0.39	0.239	0.006	----	----	----	----	----	----
0.254	23.59	0.23	0.196	0.005	----	----	----	----	----	----
0.318	24.46	0.19	0.179	0.007	----	----	----	----	----	----
0.381	25.41	0.10	0.169	0.003	----	----	----	----	----	----
0.508	26.47	0.31	0.155	0.005	----	----	----	----	----	----
0.635	27.25	0.22	0.150	0.003	----	----	----	----	----	----
0.762	27.92	0.10	0.145	0.004	----	----	----	----	----	----
0.889	28.62	0.27	0.143	0.004	----	----	----	----	----	----
1.016	29.24	0.16	0.139	0.006	----	----	----	----	----	----
1.143	29.68	0.26	0.139	0.004	----	----	----	----	----	----
1.270	30.30	0.30	0.134	0.003	----	----	----	----	----	----
1.524	31.28	0.27	0.130	0.004	----	----	----	----	----	----
1.778	32.28	0.32	0.128	0.003	----	----	----	----	----	----
2.032	33.00	0.21	0.124	0.003	----	----	----	----	----	----
2.286	33.92	0.10	0.120	0.004	----	----	----	----	----	----
2.540	34.97	0.30	0.113	0.004	----	----	----	----	----	----
2.794	35.75	0.26	0.109	0.002	----	----	----	----	----	----
3.048	36.40	0.23	0.105	0.004	----	----	----	----	----	----
3.302	37.21	0.23	0.098	0.005	----	----	----	----	----	----
3.556	37.92	0.26	0.090	0.005	----	----	----	----	----	----
3.810	38.59	0.32	0.080	0.008	----	----	----	----	----	----
4.445	39.83	0.10	0.054	0.005	----	----	----	----	----	----
5.080	40.25	0.23	0.043	0.011	----	----	----	----	----	----
5.715	40.52	0.14	0.031	0.006	----	----	----	----	----	----
6.350	40.55	0.08	0.026	0.002	----	----	----	----	----	----
7.620	40.40	0.13	0.023	0.002	----	----	----	----	----	----
8.890	40.14	0.06	0.022	0.002	----	----	----	----	----	----
10.160	39.97	0.17	0.022	0.001	----	----	----	----	----	----
11.430	39.80	0.20	0.023	0.003	----	----	----	----	----	----
12.700	39.51	0.15	0.022	0.002	----	----	----	----	----	----
13.970	39.20	0.12	0.021	0.002	----	----	----	----	----	----
15.240	39.01	0.09	0.021	0.002	----	----	----	----	----	----
16.510	38.84	0.13	0.021	0.002	----	----	----	----	----	----
17.780	38.63	0.10	0.021	0.003	----	----	----	----	----	----
19.050	38.40	0.12	0.021	0.003	----	----	----	----	----	----
20.320	38.20	0.08	0.020	0.001	----	----	----	----	----	----
21.590	38.04	0.11	0.021	0.001	----	----	----	----	----	----
22.860	37.83	0.06	0.020	0.002	----	----	----	----	----	----

Table 18. (Continued)

24.130	37.60	0.05	0.020	0.001	----	----	----	----	----	----
25.400	37.43	0.12	0.020	0.001	----	----	----	----	----	----
26.670	37.27	0.03	0.021	0.003	----	----	----	----	----	----
27.940	37.03	0.07	0.020	0.002	----	----	----	----	----	----
29.210	36.88	0.07	0.021	0.002	----	----	----	----	----	----
30.480	36.66	0.08	0.020	0.002	----	----	----	----	----	----
31.750	36.50	0.06	0.020	0.002	----	----	----	----	----	----
33.020	36.33	0.11	0.020	0.001	----	----	----	----	----	----
34.290	36.12	0.11	0.020	0.002	----	----	----	----	----	----
35.560	35.95	0.07	0.020	0.002	----	----	----	----	----	----
36.830	35.79	0.08	0.020	0.001	----	----	----	----	----	----
38.100	35.64	0.07	0.019	0.001	----	----	----	----	----	----

Table 19. Boundary Layer Measurements at 33.2% Chord on the Suction Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.127	14.58	0.24	0.281	0.007	----	----	----	----	----	----
0.254	17.07	0.38	0.233	0.010	----	----	----	----	----	----
0.381	18.48	0.23	0.211	0.004	----	----	----	----	----	----
0.508	19.48	0.20	0.197	0.005	----	----	----	----	----	----
0.635	20.28	0.20	0.187	0.006	----	----	----	----	----	----
0.762	21.06	0.22	0.183	0.005	----	----	----	----	----	----
1.016	22.23	0.37	0.176	0.004	----	----	----	----	----	----
1.270	23.32	0.31	0.170	0.004	----	----	----	----	----	----
1.524	24.35	0.28	0.158	0.004	----	----	----	----	----	----
1.778	25.35	0.37	0.152	0.004	----	----	----	----	----	----
2.032	26.25	0.28	0.143	0.003	----	----	----	----	----	----
2.286	27.01	0.36	0.136	0.004	----	----	----	----	----	----
2.540	27.75	0.30	0.128	0.004	----	----	----	----	----	----
2.794	28.47	0.23	0.123	0.004	----	----	----	----	----	----
3.048	28.94	0.21	0.116	0.003	----	----	----	----	----	----
3.302	29.57	0.16	0.109	0.003	----	----	----	----	----	----
3.556	30.17	0.24	0.103	0.002	----	----	----	----	----	----
3.810	30.45	0.21	0.101	0.002	----	----	----	----	----	----
4.064	31.01	0.20	0.098	0.003	----	----	----	----	----	----
4.318	31.40	0.20	0.095	0.003	----	----	----	----	----	----
4.572	31.76	0.31	0.095	0.003	----	----	----	----	----	----
4.826	32.21	0.34	0.093	0.003	----	----	----	----	----	----
5.080	32.56	0.29	0.091	0.004	----	----	----	----	----	----
5.334	32.85	0.41	0.090	0.003	----	----	----	----	----	----
5.842	33.74	0.39	0.086	0.003	----	----	----	----	----	----
6.350	34.61	0.36	0.078	0.004	----	----	----	----	----	----
7.620	36.01	0.13	0.048	0.004	----	----	----	----	----	----
8.890	36.41	0.15	0.024	0.005	----	----	----	----	----	----
10.160	36.33	0.10	0.020	0.003	----	----	----	----	----	----
11.430	36.14	0.11	0.018	0.002	----	----	----	----	----	----
12.700	35.93	0.11	0.018	0.001	----	----	----	----	----	----
13.970	35.72	0.12	0.017	0.001	----	----	----	----	----	----
15.240	35.52	0.10	0.017	0.001	----	----	----	----	----	----
16.510	35.31	0.15	0.017	0.001	----	----	----	----	----	----
17.780	35.13	0.14	0.017	0.001	----	----	----	----	----	----
19.050	34.96	0.12	0.016	0.001	----	----	----	----	----	----
20.320	34.77	0.12	0.017	0.001	----	----	----	----	----	----
21.590	34.55	0.10	0.017	0.002	----	----	----	----	----	----
22.860	34.41	0.06	0.017	0.002	----	----	----	----	----	----

Table 19. (Continued)

24.130	34.19	0.07	0.017	0.002	----	----	----	----	----	----
25.400	33.99	0.08	0.016	0.001	----	----	----	----	----	----
26.670	33.76	0.06	0.017	0.001	----	----	----	----	----	----
27.940	33.60	0.06	0.018	0.001	----	----	----	----	----	----
29.210	33.42	0.08	0.017	0.001	----	----	----	----	----	----
30.480	33.20	0.08	0.017	0.001	----	----	----	----	----	----
31.750	33.03	0.06	0.018	0.002	----	----	----	----	----	----
33.020	32.84	0.07	0.017	0.002	----	----	----	----	----	----
34.290	32.63	0.06	0.018	0.001	----	----	----	----	----	----
35.560	32.43	0.07	0.017	0.002	----	----	----	----	----	----
36.830	32.24	0.06	0.017	0.001	----	----	----	----	----	----
38.100	32.03	0.09	0.018	0.001	----	----	----	----	----	----

Table 20. Boundary Layer Measurements at 43.3% Chord on the Suction Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.127	10.63	0.45	0.346	0.014	----	----	----	----	----	----
0.254	12.87	0.31	0.277	0.015	----	----	----	----	----	----
0.381	14.23	0.35	0.241	0.011	----	----	----	----	----	----
0.508	14.95	0.22	0.225	0.005	----	----	----	----	----	----
0.635	15.60	0.21	0.213	0.005	----	----	----	----	----	----
0.762	16.15	0.23	0.203	0.006	----	----	----	----	----	----
1.016	17.12	0.20	0.193	0.002	----	----	----	----	----	----
1.270	18.07	0.24	0.191	0.008	----	----	----	----	----	----
1.524	18.80	0.32	0.186	0.003	----	----	----	----	----	----
1.778	19.65	0.32	0.179	0.005	----	----	----	----	----	----
2.032	20.39	0.32	0.173	0.004	----	----	----	----	----	----
2.286	21.30	0.32	0.170	0.005	----	----	----	----	----	----
2.540	22.04	0.33	0.166	0.005	----	----	----	----	----	----
2.794	22.86	0.42	0.157	0.003	----	----	----	----	----	----
3.048	23.60	0.32	0.158	0.005	----	----	----	----	----	----
3.302	24.50	0.35	0.148	0.005	----	----	----	----	----	----
3.556	25.23	0.60	0.141	0.008	----	----	----	----	----	----
3.810	26.05	0.36	0.135	0.003	----	----	----	----	----	----
4.064	26.75	0.27	0.129	0.003	----	----	----	----	----	----
4.318	27.35	0.30	0.125	0.005	----	----	----	----	----	----
4.572	28.02	0.32	0.118	0.006	----	----	----	----	----	----
4.826	28.57	0.27	0.114	0.002	----	----	----	----	----	----
5.080	29.16	0.23	0.107	0.004	----	----	----	----	----	----
5.334	29.65	0.28	0.102	0.006	----	----	----	----	----	----
5.842	30.46	0.28	0.093	0.004	----	----	----	----	----	----
6.350	31.25	0.24	0.084	0.004	----	----	----	----	----	----
6.985	32.05	0.17	0.075	0.005	----	----	----	----	----	----
7.620	32.70	0.14	0.065	0.003	----	----	----	----	----	----
8.255	33.27	0.12	0.052	0.005	----	----	----	----	----	----
8.890	33.76	0.19	0.039	0.004	----	----	----	----	----	----
9.525	33.97	0.08	0.031	0.003	----	----	----	----	----	----
10.160	34.04	0.13	0.024	0.003	----	----	----	----	----	----
11.430	34.01	0.19	0.020	0.002	----	----	----	----	----	----
12.700	33.85	0.17	0.020	0.002	----	----	----	----	----	----
13.970	33.67	0.15	0.018	0.001	----	----	----	----	----	----
15.240	33.50	0.20	0.019	0.002	----	----	----	----	----	----
16.510	33.34	0.21	0.019	0.003	----	----	----	----	----	----
17.780	33.23	0.24	0.018	0.003	----	----	----	----	----	----
19.050	33.02	0.20	0.018	0.002	----	----	----	----	----	----

Table 20. (Continued)

20.320	32.82	0.20	0.018	0.002							
21.590	32.69	0.22	0.019	0.003							
22.860	32.54	0.17	0.019	0.002							
24.130	32.36	0.17	0.019	0.002							
25.400	32.17	0.16	0.019	0.002							
26.670	32.08	0.23	0.019	0.001							
27.940	31.88	0.26	0.019	0.003							
29.210	31.68	0.20	0.018	0.002							
30.480	31.55	0.21	0.019	0.003							
31.750	31.38	0.27	0.019	0.004							
33.020	31.21	0.20	0.019	0.002							
34.290	31.04	0.23	0.019	0.002							
35.560	30.88	0.21	0.020	0.002							
36.830	30.71	0.21	0.019	0.003							
38.100	30.52	0.21	0.019	0.003							

Table 21. Boundary Layer Measurements at 53.6% Chord on the Suction Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.381	9.68	0.21	0.308	0.017	----	----	----	----	----	----
0.508	10.24	0.29	0.295	0.010	----	----	----	----	----	----
0.635	10.75	0.25	0.280	0.014	----	----	----	----	----	----
0.762	11.17	0.40	0.277	0.009	----	----	----	----	----	----
1.016	12.06	0.31	0.256	0.010	----	----	----	----	----	----
1.270	12.75	0.40	0.250	0.008	----	----	----	----	----	----
1.524	13.39	0.40	0.241	0.008	----	----	----	----	----	----
1.778	13.91	0.28	0.233	0.012	----	----	----	----	----	----
2.032	14.72	0.37	0.225	0.010	----	----	----	----	----	----
2.286	15.26	0.37	0.213	0.006	----	----	----	----	----	----
2.540	15.94	0.31	0.208	0.006	----	----	----	----	----	----
2.794	16.57	0.40	0.207	0.010	----	----	----	----	----	----
3.048	17.33	0.32	0.198	0.008	----	----	----	----	----	----
3.302	17.88	0.39	0.188	0.007	----	----	----	----	----	----
3.556	18.64	0.38	0.188	0.008	----	----	----	----	----	----
3.810	19.23	0.27	0.183	0.009	----	----	----	----	----	----
4.064	19.97	0.32	0.181	0.007	----	----	----	----	----	----
4.318	20.70	0.22	0.169	0.010	----	----	----	----	----	----
4.572	21.36	0.26	0.166	0.006	----	----	----	----	----	----
4.826	22.04	0.27	0.164	0.008	----	----	----	----	----	----
5.080	22.65	0.31	0.160	0.008	----	----	----	----	----	----
5.334	23.22	0.34	0.155	0.005	----	----	----	----	----	----
5.842	24.50	0.29	0.145	0.004	----	----	----	----	----	----
6.350	25.83	0.25	0.134	0.004	----	----	----	----	----	----
6.985	27.18	0.23	0.121	0.005	----	----	----	----	----	----
7.620	28.44	0.24	0.107	0.004	----	----	----	----	----	----
8.255	29.52	0.20	0.094	0.003	----	----	----	----	----	----
8.890	30.44	0.11	0.079	0.003	----	----	----	----	----	----
10.160	31.78	0.13	0.048	0.008	----	----	----	----	----	----
11.430	32.18	0.08	0.032	0.002	----	----	----	----	----	----
12.700	32.29	0.07	0.026	0.004	----	----	----	----	----	----
13.970	32.21	0.07	0.022	0.003	----	----	----	----	----	----
15.240	32.09	0.07	0.019	0.001	----	----	----	----	----	----
16.510	31.95	0.12	0.018	0.001	----	----	----	----	----	----
17.780	31.79	0.05	0.018	0.001	----	----	----	----	----	----
19.050	31.68	0.13	0.019	0.002	----	----	----	----	----	----
20.320	31.54	0.10	0.019	0.002	----	----	----	----	----	----
21.590	31.44	0.09	0.018	0.002	----	----	----	----	----	----
22.860	31.28	0.10	0.018	0.002	----	----	----	----	----	----

Table 21. (Continued)

24.130	31.13	0.11	0.018	0.001	----	----	----	----	----	----
25.400	30.98	0.10	0.018	0.001	----	----	----	----	----	----
26.670	30.83	0.08	0.017	0.001	----	----	----	----	----	----
27.940	30.72	0.11	0.017	0.001	----	----	----	----	----	----
29.210	30.58	0.06	0.018	0.001	----	----	----	----	----	----
30.480	30.41	0.11	0.018	0.001	----	----	----	----	----	----
31.750	30.27	0.10	0.017	0.002	----	----	----	----	----	----
33.020	30.15	0.13	0.017	0.001	----	----	----	----	----	----
34.290	29.98	0.10	0.018	0.002	----	----	----	----	----	----
35.560	29.84	0.12	0.017	0.001	----	----	----	----	----	----
36.830	29.73	0.11	0.017	0.001	----	----	----	----	----	----
38.100	29.56	0.11	0.017	0.001	----	----	----	----	----	----

Table 22. Boundary Layer Measurements at 63.2% Chord on the Suction Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	3.38	0.23	0.704	0.030	0.418	0.171	3.507	0.515	5.80	0.76
0.508	4.53	0.24	0.579	0.024	0.225	0.169	3.225	0.194	3.32	0.62
0.762	5.13	0.24	0.548	0.035	0.057	0.113	3.263	0.149	3.27	0.90
1.016	5.75	0.31	0.495	0.037	0.015	0.195	3.329	0.220	2.38	0.96
1.270	6.29	0.32	0.466	0.031	0.082	0.210	3.182	0.176	1.70	1.22
1.524	6.71	0.27	0.453	0.024	-0.025	0.082	3.196	0.191	1.72	0.51
1.778	7.28	0.36	0.417	0.017	0.106	0.070	3.123	0.120	0.88	0.37
2.032	7.70	0.30	0.406	0.011	-0.006	0.112	3.051	0.088	0.97	0.36
2.286	8.35	0.35	0.395	0.022	0.036	0.116	3.214	0.277	0.67	0.49
2.540	8.91	0.26	0.378	0.017	0.009	0.096	2.984	0.210	0.52	0.19
2.794	9.21	0.48	0.377	0.018	-0.024	0.124	3.089	0.301	0.55	0.37
3.048	9.88	0.35	0.353	0.018	0.003	0.099	3.001	0.162	0.35	0.18
3.302	10.50	0.41	0.345	0.021	-0.070	0.105	3.078	0.359	0.43	0.41
3.556	10.93	0.60	0.335	0.027	-0.059	0.107	2.936	0.191	0.20	0.32
3.810	11.55	0.51	0.322	0.023	0.020	0.120	2.956	0.248	0.15	0.26
4.064	12.12	0.41	0.312	0.011	-0.039	0.096	2.900	0.076	0.12	0.10
4.318	12.78	0.45	0.298	0.016	-0.086	0.098	2.904	0.076	0.02	0.04
4.572	13.11	0.41	0.297	0.019	-0.052	0.059	2.981	0.299	0.07	0.09
4.826	13.89	0.40	0.287	0.015	-0.099	0.057	2.888	0.196	0.07	0.11
5.080	14.42	0.40	0.278	0.012	-0.124	0.096	2.913	0.167	0.00	0.00
5.334	14.95	0.44	0.273	0.015	-0.139	0.051	2.903	0.169	0.02	0.04
5.842	16.21	0.47	0.254	0.012	-0.270	0.115	2.920	0.152	0.00	0.00
6.350	17.30	0.57	0.247	0.020	-0.368	0.155	3.054	0.349	0.00	0.00
6.985	19.16	0.51	0.220	0.026	-0.452	0.124	3.123	0.186	0.00	0.00
7.620	20.89	0.30	0.191	0.012	-0.486	0.105	3.253	0.308	0.00	0.00
8.255	22.34	0.44	0.178	0.020	-0.670	0.275	3.671	0.727	0.00	0.00
8.890	23.70	0.34	0.156	0.008	-0.693	0.138	3.675	0.606	0.00	0.00
9.525	24.94	0.28	0.146	0.008	-0.876	0.221	3.943	0.801	0.00	0.00
10.160	26.25	0.24	0.122	0.006	-1.016	0.245	4.543	1.380	0.00	0.00
10.790	27.12	0.33	0.117	0.009	-1.234	0.262	4.792	1.018	0.00	0.00
11.430	28.05	0.06	0.101	0.004	-1.561	0.252	6.163	1.599	0.00	0.00
12.060	28.77	0.18	0.085	0.005	-2.071	0.379	8.958	2.366	0.00	0.00
12.700	29.31	0.09	0.070	0.004	-2.450	0.367	11.570	3.493	0.00	0.00
13.330	29.68	0.13	0.057	0.005	-3.246	1.090	21.520	16.620	0.00	0.00
13.970	29.87	0.06	0.046	0.006	-3.122	0.829	19.900	6.642	0.00	0.00
15.240	30.06	0.05	0.030	0.007	-1.691	1.652	12.240	9.804	0.00	0.00
16.510	30.07	0.09	0.023	0.005	-0.577	2.258	12.320	21.060	0.00	0.00
17.780	29.91	0.05	0.018	0.003	-0.490	0.582	5.113	3.098	0.00	0.00
19.050	29.82	0.04	0.018	0.001	-0.002	0.406	3.760	0.990	0.00	0.00

Table 22. (Continued)

20.320	29.74	0.12	0.018	0.001	0.314	0.206	3.430	0.296	0.00	0.00
21.590	29.58	0.05	0.018	0.001	0.075	0.085	3.057	0.523	0.00	0.00
22.860	29.44	0.11	0.018	0.001	-0.112	0.389	3.358	1.101	0.00	0.00
24.130	29.33	0.03	0.018	0.001	0.065	0.322	3.075	0.583	0.00	0.00
25.400	29.18	0.11	0.018	0.002	0.106	0.135	2.985	0.468	0.00	0.00
26.670	29.08	0.04	0.017	0.001	0.129	0.498	4.172	2.207	0.00	0.00
27.940	28.99	0.03	0.017	0.001	0.440	0.326	3.748	1.308	0.00	0.00
29.210	28.83	0.08	0.017	0.001	-0.047	0.197	3.613	1.130	0.00	0.00
30.480	28.73	0.04	0.017	0.002	0.095	0.149	2.996	0.274	0.00	0.00
31.750	28.59	0.07	0.017	0.001	0.126	0.332	3.646	1.146	0.00	0.00
33.020	28.45	0.09	0.017	0.002	0.169	0.144	3.743	0.656	0.00	0.00
34.290	28.35	0.04	0.018	0.002	-0.209	0.654	5.144	4.573	0.00	0.00
35.560	28.21	0.09	0.017	0.001	-0.117	0.234	3.373	0.712	0.00	0.00
36.830	28.07	0.07	0.018	0.003	0.015	0.267	3.409	0.382	0.00	0.00
38.100	27.90	0.11	0.018	0.001	0.143	0.223	3.315	0.485	0.00	0.00

Table 23. Boundary Layer Measurements at 74.0% Chord on the Suction Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	0.77	0.11	2.271	0.474	0.282	0.296	4.232	0.562	31.25	3.51
0.508	1.44	0.12	1.579	0.139	0.145	0.147	3.217	0.147	26.25	2.51
0.762	1.76	0.08	1.378	0.088	-0.023	0.071	3.081	0.171	22.83	1.19
1.016	1.84	0.16	1.351	0.139	0.000	0.115	3.031	0.141	22.40	2.77
1.270	2.18	0.24	1.241	0.270	-0.052	0.225	3.058	0.395	19.98	4.36
1.524	2.53	0.32	1.121	0.229	-0.132	0.088	3.168	0.224	17.67	4.80
1.778	2.76	0.16	0.983	0.093	-0.180	0.115	3.021	0.220	15.85	2.58
2.032	3.01	0.13	0.950	0.092	-0.147	0.119	3.099	0.278	14.33	2.67
2.286	3.27	0.14	0.876	0.052	-0.120	0.130	3.232	0.331	13.17	1.56
2.540	3.49	0.31	0.842	0.118	-0.151	0.139	3.105	0.151	11.50	2.88
2.794	3.94	0.17	0.751	0.044	-0.183	0.205	3.171	0.134	9.28	1.60
3.048	4.30	0.26	0.679	0.062	-0.197	0.097	3.241	0.120	7.45	2.34
3.302	4.46	0.12	0.680	0.045	-0.121	0.134	3.296	0.235	7.00	1.85
3.556	4.79	0.31	0.653	0.083	-0.153	0.165	3.347	0.156	6.78	2.73
3.810	5.18	0.19	0.600	0.026	-0.174	0.145	3.278	0.244	5.43	0.84
4.064	5.29	0.36	0.599	0.054	-0.206	0.153	3.378	0.252	5.40	1.67
4.318	5.81	0.34	0.557	0.048	-0.118	0.173	3.374	0.196	4.05	1.58
4.572	5.97	0.27	0.558	0.038	-0.177	0.199	3.350	0.238	4.23	0.98
4.826	6.39	0.37	0.514	0.048	-0.082	0.089	3.322	0.268	2.88	1.23
5.080	6.65	0.44	0.518	0.084	-0.083	0.275	3.147	0.294	3.32	2.80
5.334	7.02	0.44	0.487	0.045	-0.069	0.128	3.202	0.154	2.68	1.00
5.842	7.99	0.39	0.432	0.033	-0.091	0.147	3.143	0.178	1.53	0.96
6.350	8.51	0.23	0.408	0.011	-0.121	0.150	3.273	0.209	1.28	0.50
6.985	9.73	0.49	0.373	0.044	-0.047	0.174	3.085	0.272	0.70	0.63
7.620	10.73	0.39	0.359	0.022	-0.062	0.157	3.062	0.305	0.55	0.32
8.255	12.10	0.20	0.324	0.019	-0.081	0.084	2.877	0.293	0.12	0.14
8.890	12.95	0.47	0.309	0.026	-0.112	0.139	2.913	0.340	0.20	0.24
9.525	14.22	0.96	0.298	0.032	-0.175	0.150	2.854	0.259	0.02	0.04
10.160	15.89	0.39	0.256	0.018	-0.294	0.078	3.011	0.231	0.03	0.09
10.790	17.15	0.76	0.240	0.025	-0.314	0.056	3.025	0.145	0.00	0.00
11.430	18.39	0.56	0.222	0.020	-0.403	0.099	3.072	0.292	0.00	0.00
12.060	19.55	0.65	0.211	0.015	-0.411	0.105	2.964	0.192	0.00	0.00
12.700	20.83	0.40	0.198	0.011	-0.502	0.105	3.023	0.199	0.00	0.00
13.330	22.10	0.49	0.178	0.010	-0.686	0.107	3.462	0.299	0.00	0.00
13.970	23.32	0.59	0.169	0.016	-0.782	0.212	3.587	0.621	0.00	0.00
14.610	24.53	0.33	0.145	0.014	-0.820	0.157	3.720	0.563	0.00	0.00
15.240	25.36	0.54	0.135	0.011	-0.979	0.210	3.967	0.842	0.00	0.00
15.870	26.36	0.50	0.121	0.012	-1.203	0.187	4.539	0.701	0.00	0.00
16.510	26.98	0.28	0.112	0.015	-1.502	0.287	5.633	0.960	0.00	0.00

Table 23. (Continued)

17.140	27.80	0.30	0.088	0.008	-1.746	0.253	6.768	1.457	0.00	0.00
17.780	28.36	0.26	0.069	0.011	-2.008	0.373	9.055	3.332	0.00	0.00
19.050	29.15	0.30	0.044	0.016	-2.391	1.494	13.960	8.862	0.00	0.00
20.320	29.31	0.08	0.031	0.007	-1.794	1.432	13.080	9.211	0.00	0.00
21.590	29.26	0.12	0.025	0.008	-1.345	2.056	11.110	14.220	0.00	0.00
22.860	29.21	0.07	0.020	0.002	-0.160	0.684	5.485	1.912	0.00	0.00
24.130	29.14	0.03	0.020	0.001	0.104	0.294	4.078	1.582	0.00	0.00
25.400	29.09	0.09	0.018	0.003	-0.219	0.928	5.629	5.447	0.00	0.00
26.670	29.00	0.05	0.017	0.002	0.163	0.304	3.553	0.515	0.00	0.00
27.940	28.91	0.07	0.017	0.002	0.025	0.274	4.328	0.867	0.00	0.00
29.210	28.83	0.08	0.017	0.001	0.255	0.171	3.437	0.324	0.00	0.00
30.480	28.73	0.07	0.017	0.003	0.041	0.191	3.268	0.428	0.00	0.00
31.750	28.59	0.07	0.016	0.002	0.031	0.563	4.628	2.970	0.00	0.00
33.020	28.49	0.05	0.017	0.001	0.033	0.273	3.160	0.454	0.00	0.00
34.290	28.38	0.03	0.017	0.001	0.188	0.344	3.866	1.036	0.00	0.00
35.560	28.26	0.06	0.017	0.001	0.091	0.325	3.303	0.605	0.00	0.00
36.830	28.20	0.05	0.018	0.001	0.205	0.189	3.773	1.140	0.00	0.00
38.100	28.07	0.04	0.018	0.002	0.335	0.353	3.710	1.540	0.00	0.00

Table 24. Boundary Layer Measurements at 84.2% Chord on the Suction Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	0.07	0.16	2.950	14.000	0.075	0.086	4.045	0.780	47.70	4.20
0.508	0.10	0.29	-13.030	28.060	0.135	0.065	3.283	0.271	48.55	6.48
0.762	0.06	0.26	47.820	94.940	0.080	0.180	2.950	0.298	50.13	3.92
1.016	0.07	0.19	43.330	60.480	0.125	0.109	2.819	0.223	50.54	3.35
1.270	0.07	0.39	44.850	126.100	0.172	0.168	2.728	0.176	50.78	7.34
1.524	0.25	0.17	-8.016	43.290	0.166	0.124	2.780	0.228	48.03	2.65
1.778	0.34	0.30	-7.968	62.890	0.083	0.080	2.568	0.101	46.53	4.53
2.032	0.26	0.33	5.179	7.535	0.226	0.180	2.638	0.234	48.65	5.51
2.286	0.41	0.23	10.220	9.121	0.129	0.078	2.566	0.173	45.38	3.79
2.540	0.52	0.22	6.120	2.346	0.157	0.150	2.685	0.315	44.68	4.99
2.794	0.83	0.10	3.453	0.443	0.026	0.063	2.483	0.186	39.78	1.57
3.048	1.00	0.41	3.227	1.180	0.016	0.100	2.511	0.134	37.63	5.38
3.302	1.32	0.41	2.368	0.720	-0.048	0.084	2.672	0.207	33.05	6.37
3.556	1.36	0.30	2.264	0.534	-0.022	0.082	2.506	0.130	33.42	3.27
3.810	1.41	0.33	2.249	0.641	-0.028	0.039	2.485	0.117	32.82	4.60
4.064	1.64	0.21	1.819	0.231	0.047	0.195	2.760	0.347	30.15	2.75
4.318	1.82	0.20	1.676	0.213	-0.061	0.104	2.718	0.149	27.83	3.19
4.572	1.93	0.38	1.650	0.352	-0.106	0.077	2.742	0.258	27.55	5.23
4.826	2.21	0.31	1.417	0.296	-0.137	0.124	2.690	0.197	24.47	4.79
5.080	2.38	0.20	1.357	0.133	-0.105	0.064	2.634	0.146	24.20	2.62
5.715	2.91	0.40	1.131	0.207	-0.253	0.097	2.790	0.109	19.23	3.82
6.350	3.70	0.53	0.900	0.211	-0.201	0.106	3.035	0.371	13.45	5.36
6.985	4.21	0.35	0.785	0.111	-0.248	0.091	3.010	0.189	10.70	3.43
7.620	4.72	0.31	0.712	0.098	-0.266	0.106	3.119	0.169	9.03	3.47
8.255	5.40	0.37	0.630	0.073	-0.287	0.090	3.078	0.232	6.77	2.21
8.890	6.09	0.30	0.587	0.044	-0.283	0.172	3.338	0.396	5.25	1.15
9.525	6.76	0.34	0.531	0.031	-0.259	0.067	3.369	0.162	3.95	0.66
10.160	7.49	0.25	0.481	0.022	-0.268	0.083	3.321	0.084	2.98	0.65
10.790	8.35	0.41	0.454	0.053	-0.191	0.184	3.314	0.180	2.17	1.46
11.430	8.71	0.81	0.441	0.049	-0.277	0.068	3.287	0.184	2.23	1.45
12.060	9.64	0.25	0.410	0.028	-0.223	0.142	3.158	0.318	1.28	0.75
12.700	10.43	0.31	0.391	0.026	-0.282	0.126	3.286	0.160	1.10	0.46
13.330	11.49	0.52	0.358	0.033	-0.283	0.075	3.275	0.145	0.85	0.52
13.970	12.32	0.22	0.345	0.021	-0.282	0.103	3.281	0.253	0.70	0.34
14.610	13.10	0.40	0.330	0.027	-0.280	0.146	3.240	0.333	0.55	0.35
15.240	14.25	0.46	0.302	0.022	-0.345	0.099	3.253	0.171	0.32	0.37
15.870	15.44	0.51	0.284	0.023	-0.370	0.192	3.266	0.371	0.20	0.24
16.510	16.36	0.47	0.272	0.020	-0.380	0.032	3.093	0.182	0.10	0.13
17.140	17.42	0.47	0.257	0.023	-0.516	0.146	3.404	0.456	0.17	0.20

Table 24. (Continued)

17.780	18.39	0.36	0.241	0.017	-0.587	0.139	3.415	0.461	0.10	0.13
18.420	19.58	0.47	0.222	0.017	-0.578	0.072	3.323	0.213	0.00	0.00
19.050	20.60	0.61	0.207	0.021	-0.599	0.081	3.265	0.175	0.00	0.00
19.680	21.52	0.52	0.198	0.021	-0.813	0.132	3.863	0.592	0.00	0.00
20.320	22.42	0.86	0.191	0.029	-0.896	0.133	3.952	0.646	0.00	0.00
20.950	23.34	0.64	0.172	0.020	-0.950	0.160	4.071	0.607	0.00	0.00
21.590	24.33	0.72	0.163	0.034	-1.238	0.203	4.889	0.787	0.00	0.00
22.230	25.47	0.50	0.130	0.024	-1.277	0.190	4.872	0.766	0.00	0.00
22.860	26.26	0.59	0.116	0.018	-1.421	0.251	5.478	1.073	0.00	0.00
24.130	27.23	0.27	0.092	0.007	-1.842	0.254	7.312	1.528	0.00	0.00
25.400	28.05	0.16	0.067	0.006	-2.515	0.418	12.220	3.795	0.00	0.00
26.670	28.44	0.20	0.048	0.009	-2.923	0.969	18.310	13.730	0.00	0.00
27.940	28.65	0.05	0.036	0.008	-3.018	1.911	25.010	19.500	0.00	0.00
29.210	28.68	0.08	0.030	0.009	-3.345	2.920	35.680	39.090	0.00	0.00
30.480	28.68	0.04	0.023	0.005	-1.171	2.481	14.470	25.280	0.00	0.00
31.750	28.61	0.06	0.022	0.006	-0.502	1.648	8.335	10.930	0.00	0.00
33.020	28.59	0.06	0.021	0.006	-1.114	3.016	16.810	32.410	0.00	0.00
34.290	28.49	0.05	0.019	0.001	0.286	0.453	4.418	1.845	0.00	0.00
35.560	28.42	0.10	0.021	0.010	-0.715	2.764	11.830	21.070	0.00	0.00
36.830	28.37	0.05	0.023	0.021	-0.982	2.631	9.708	14.180	0.00	0.00
38.100	28.30	0.04	0.017	0.002	0.213	0.377	3.445	0.801	0.00	0.00
39.370	28.24	0.07	0.017	0.001	0.041	0.252	3.504	0.754	0.00	0.00
40.640	28.15	0.07	0.018	0.005	-0.874	2.607	13.280	26.340	0.00	0.00
41.910	28.06	0.11	0.024	0.017	-1.975	4.091	21.300	37.990	0.00	0.00

Table 25. Boundary Layer Measurements at 94.9% Chord on the Suction Surface for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	-0.19	0.53	-6.251	8.006	-0.052	0.196	3.407	0.445	52.57	9.61
0.508	-0.33	0.41	-5.906	11.190	0.055	0.094	2.467	0.188	54.45	6.32
0.762	-0.76	0.24	-4.112	2.021	0.248	0.109	2.567	0.279	61.32	3.64
1.016	-0.94	0.50	-4.016	2.707	0.290	0.127	2.550	0.402	64.57	7.43
1.270	-0.86	0.38	-4.317	2.423	0.290	0.114	2.522	0.198	62.73	5.74
1.524	-0.80	0.49	-31.480	72.720	0.305	0.134	2.485	0.211	62.45	6.54
1.778	-0.82	0.49	-9.630	16.160	0.339	0.195	2.655	0.351	62.95	7.84
2.032	-0.43	0.47	5.144	20.780	0.304	0.155	2.651	0.387	57.83	6.31
2.286	-0.53	0.40	-1.130	8.828	0.306	0.135	2.580	0.268	58.70	6.08
2.540	-0.54	0.22	-6.537	4.104	0.328	0.107	2.592	0.214	59.43	3.31
2.794	-0.61	0.49	-0.453	9.676	0.360	0.156	2.719	0.199	60.43	7.29
3.048	-0.41	0.53	-3.933	6.047	0.409	0.173	2.809	0.312	58.63	8.11
3.302	-0.47	0.40	-2.121	7.001	0.362	0.118	2.655	0.121	59.52	5.94
3.556	-0.27	0.30	10.290	29.650	0.298	0.080	2.645	0.124	56.63	4.53
3.810	-0.23	0.47	-7.419	8.792	0.313	0.125	2.653	0.108	56.57	7.23
4.064	-0.08	0.55	7.149	20.580	0.338	0.179	2.786	0.300	54.03	8.56
4.318	0.06	0.49	-23.300	49.900	0.306	0.119	2.860	0.229	52.63	7.19
4.572	0.02	0.62	-5.260	8.816	0.286	0.119	2.576	0.138	53.32	7.82
4.826	0.01	0.50	-8.087	15.070	0.310	0.105	2.742	0.186	53.85	7.27
5.080	0.23	0.67	-36.750	68.700	0.250	0.230	2.766	0.192	49.68	9.82
5.715	0.38	0.61	13.330	21.370	0.196	0.186	2.765	0.284	46.97	8.69
6.350	0.70	0.80	2.977	5.996	0.168	0.192	2.792	0.355	43.68	11.05
6.985	1.03	0.79	-3.987	17.790	0.161	0.139	2.636	0.179	39.75	9.61
7.620	1.26	0.83	4.231	4.484	0.204	0.292	2.981	0.468	36.52	9.15
8.255	1.57	0.94	3.276	3.328	0.232	0.301	3.114	0.915	32.66	10.08
8.890	1.76	0.76	2.320	1.527	0.108	0.175	2.866	0.261	31.05	9.06
9.525	2.06	0.71	1.809	0.819	0.051	0.106	2.802	0.123	27.60	7.92
10.160	2.37	0.60	1.484	0.528	-0.015	0.159	2.783	0.098	24.40	6.95
10.790	2.60	0.86	1.468	0.753	-0.010	0.138	2.853	0.186	22.80	8.51
11.430	3.07	1.00	1.212	0.428	-0.020	0.153	2.914	0.278	19.87	7.79
12.060	3.31	0.81	1.108	0.294	-0.023	0.123	2.888	0.240	18.33	6.16
12.700	3.76	0.78	0.939	0.209	-0.082	0.155	3.074	0.401	14.18	5.99
13.330	4.51	0.75	0.807	0.140	-0.182	0.131	3.043	0.130	10.87	4.21
13.970	4.77	0.75	0.761	0.128	-0.187	0.070	3.122	0.138	9.62	3.16
14.610	5.49	0.93	0.675	0.118	-0.109	0.087	3.015	0.119	7.63	3.09
15.240	5.79	0.89	0.636	0.090	-0.149	0.138	3.052	0.222	5.90	2.35
15.870	6.20	0.84	0.599	0.088	-0.124	0.069	3.131	0.262	5.37	2.45
16.510	6.55	0.94	0.589	0.083	-0.150	0.086	3.043	0.214	5.33	2.23
17.140	7.20	0.97	0.530	0.081	-0.153	0.064	3.022	0.202	3.72	1.99

Table 25. (Continued)

17.780	7.61	0.93	0.507	0.072	-0.073	0.064	2.916	0.150	2.83	1.74
18.420	8.17	1.12	0.492	0.074	-0.149	0.106	3.063	0.197	2.67	1.76
19.050	8.68	1.35	0.477	0.073	-0.092	0.070	2.974	0.174	2.13	1.29
19.680	9.33	1.29	0.449	0.074	-0.118	0.099	2.966	0.241	1.75	1.19
20.320	9.85	1.33	0.428	0.067	-0.120	0.096	2.955	0.201	1.37	1.02
20.950	10.88	0.97	0.388	0.043	-0.170	0.087	2.984	0.062	0.88	0.75
21.590	11.69	0.85	0.373	0.041	-0.138	0.106	2.826	0.087	0.45	0.55
22.230	12.36	0.98	0.364	0.041	-0.146	0.064	2.900	0.096	0.47	0.53
22.860	13.29	0.75	0.329	0.029	-0.239	0.071	2.975	0.124	0.35	0.22
23.490	13.95	1.08	0.324	0.047	-0.206	0.126	2.938	0.165	0.20	0.33
24.130	14.97	0.90	0.302	0.043	-0.308	0.068	3.021	0.221	0.18	0.23
24.770	15.80	0.88	0.286	0.042	-0.340	0.075	2.947	0.138	0.05	0.13
25.400	16.65	1.06	0.279	0.041	-0.352	0.065	3.045	0.205	0.07	0.09
26.030	17.46	0.86	0.265	0.024	-0.487	0.091	3.227	0.215	0.05	0.09
26.670	18.43	0.72	0.247	0.035	-0.426	0.051	2.988	0.175	0.02	0.04
27.300	19.45	0.77	0.232	0.044	-0.513	0.069	3.221	0.250	0.07	0.17
27.940	20.31	0.82	0.224	0.038	-0.613	0.162	3.309	0.360	0.00	0.00
28.580	21.34	1.00	0.207	0.035	-0.708	0.053	3.565	0.388	0.02	0.04
29.210	22.52	0.68	0.186	0.022	-0.783	0.143	3.469	0.435	0.00	0.00
29.840	23.48	0.73	0.172	0.032	-0.946	0.199	3.896	0.502	0.00	0.00
30.480	24.12	0.81	0.157	0.026	-1.058	0.264	4.251	1.026	0.02	0.04
31.120	25.03	0.80	0.148	0.020	-1.375	0.424	5.132	1.527	0.00	0.00
31.750	25.98	0.76	0.120	0.014	-1.671	0.602	6.744	2.891	0.00	0.00
32.380	26.47	0.69	0.113	0.023	-1.946	0.514	7.865	2.709	0.00	0.00
33.020	26.86	0.56	0.100	0.021	-2.084	0.533	8.838	3.462	0.00	0.00
34.290	27.53	0.42	0.077	0.024	-2.287	0.365	9.997	2.301	0.00	0.00
35.560	28.05	0.27	0.052	0.011	-2.825	0.795	15.960	6.984	0.00	0.00
36.830	28.28	0.15	0.040	0.011	-3.083	1.764	21.450	14.200	0.00	0.00
38.100	28.28	0.13	0.031	0.005	-1.794	1.286	12.630	10.130	0.00	0.00
39.370	28.38	0.10	0.025	0.002	-0.212	0.726	5.183	2.714	0.00	0.00
40.640	28.35	0.13	0.023	0.004	0.075	0.330	3.936	0.669	0.00	0.00
41.910	28.36	0.11	0.021	0.001	-0.122	0.280	3.832	1.234	0.00	0.00
43.180	28.26	0.14	0.020	0.002	0.010	0.342	3.591	0.788	0.00	0.00

Table 26. Wake Measurements at 105.4% Chord for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
-63.500	28.98	0.14	0.019	0.001	-0.056	0.256	3.849	0.772	0.00	0.00
-62.230	29.00	0.09	0.019	0.002	0.082	0.368	3.393	0.683	0.00	0.00
-60.960	29.02	0.14	0.021	0.001	-0.034	0.252	3.231	0.493	0.00	0.00
-59.690	29.11	0.18	0.020	0.003	-0.163	1.191	5.674	5.268	0.00	0.00
-58.420	29.07	0.13	0.021	0.002	-0.073	0.575	4.162	2.449	0.00	0.00
-57.150	29.01	0.12	0.020	0.001	0.042	0.202	3.070	0.323	0.00	0.00
-55.880	29.08	0.08	0.020	0.002	0.086	0.166	3.267	0.233	0.00	0.00
-54.610	29.11	0.09	0.021	0.001	0.029	0.126	3.261	0.164	0.00	0.00
-53.340	29.13	0.17	0.020	0.002	0.006	0.337	2.955	0.419	0.00	0.00
-52.070	29.16	0.14	0.022	0.003	0.337	0.199	3.789	0.802	0.00	0.00
-50.800	29.13	0.15	0.022	0.001	-0.251	0.237	3.519	0.925	0.00	0.00
-49.530	29.27	0.11	0.023	0.001	-0.028	0.700	4.047	1.790	0.00	0.00
-48.260	29.19	0.06	0.027	0.011	-1.377	3.078	14.860	26.430	0.00	0.00
-46.990	29.26	0.16	0.026	0.009	-0.817	2.258	9.188	16.170	0.00	0.00
-45.720	29.22	0.06	0.033	0.016	-2.626	4.162	29.080	46.420	0.00	0.00
-44.450	29.28	0.12	0.035	0.010	-3.210	3.685	35.360	48.650	0.00	0.00
-43.180	29.21	0.09	0.038	0.009	-2.555	1.644	20.620	13.440	0.00	0.00
-41.910	29.05	0.08	0.052	0.011	-3.042	1.167	20.180	9.682	0.00	0.00
-40.640	28.66	0.13	0.069	0.012	-2.722	0.444	14.490	3.857	0.00	0.00
-39.370	28.05	0.18	0.085	0.007	-2.293	0.390	11.110	3.873	0.00	0.00
-38.100	26.84	0.24	0.113	0.009	-1.468	0.162	5.672	0.902	0.00	0.00
-37.460	26.16	0.17	0.131	0.009	-1.478	0.213	6.080	1.203	0.00	0.00
-36.830	25.24	0.30	0.151	0.017	-1.291	0.434	5.457	2.201	0.00	0.00
-36.190	24.32	0.43	0.168	0.010	-1.126	0.127	4.810	0.566	0.00	0.00
-35.560	23.29	0.36	0.183	0.012	-0.952	0.124	4.230	0.620	0.02	0.06
-34.920	22.06	0.48	0.199	0.007	-0.802	0.127	3.871	0.425	0.00	0.00
-34.290	21.09	0.43	0.223	0.017	-0.828	0.114	3.875	0.395	0.02	0.06
-33.650	20.05	0.18	0.242	0.007	-0.659	0.096	3.516	0.313	0.04	0.09
-33.020	18.87	0.62	0.266	0.026	-0.625	0.079	3.358	0.318	0.02	0.06
-32.380	17.84	0.47	0.275	0.012	-0.529	0.112	3.379	0.240	0.12	0.16
-31.750	17.15	0.51	0.278	0.021	-0.452	0.176	3.207	0.320	0.16	0.23
-31.110	16.07	0.80	0.304	0.026	-0.444	0.119	3.226	0.206	0.24	0.19
-30.480	15.07	0.36	0.327	0.013	-0.409	0.076	3.225	0.209	0.26	0.29
-29.840	13.97	0.44	0.348	0.013	-0.397	0.197	3.334	0.369	0.66	0.52
-29.210	13.30	0.15	0.360	0.016	-0.367	0.093	3.157	0.254	0.68	0.30
-28.570	12.37	0.52	0.382	0.020	-0.385	0.172	3.381	0.254	1.18	0.68
-27.940	11.51	0.49	0.419	0.026	-0.384	0.080	3.302	0.166	1.84	0.48
-27.300	10.56	0.26	0.458	0.018	-0.435	0.083	3.340	0.239	2.70	0.76
-26.670	9.53	0.63	0.513	0.057	-0.390	0.075	3.242	0.224	4.30	1.93

Table 26. (Continued)

-26.030	8.92	0.59	0.540	0.046	-0.347	0.114	3.233	0.138	4.62	1.48
-25.400	8.32	0.44	0.577	0.047	-0.381	0.111	3.217	0.201	5.76	1.77
-24.760	7.57	0.61	0.635	0.088	-0.367	0.124	3.164	0.228	7.48	2.76
-24.130	6.86	0.41	0.708	0.077	-0.371	0.151	2.961	0.342	9.90	2.80
-23.490	6.35	0.22	0.751	0.050	-0.348	0.100	3.115	0.150	10.44	1.82
-22.860	5.54	0.41	0.865	0.082	-0.303	0.150	2.957	0.206	13.96	1.80
-22.220	4.99	0.53	0.979	0.157	-0.293	0.189	2.833	0.236	16.72	4.22
-21.590	4.33	0.51	1.121	0.159	-0.326	0.128	2.733	0.153	19.54	3.50
-20.950	3.95	0.62	1.228	0.200	-0.292	0.137	2.653	0.309	22.32	3.91
-20.320	3.37	0.73	1.450	0.363	-0.136	0.194	2.572	0.248	25.78	6.85
-19.680	2.83	0.52	1.700	0.349	-0.195	0.192	2.532	0.148	28.46	4.29
-19.050	2.22	0.33	2.109	0.297	-0.102	0.066	2.443	0.114	32.36	2.76
-18.410	1.90	0.32	2.486	0.434	0.015	0.124	2.527	0.466	36.22	4.06
-17.780	1.51	0.37	3.064	0.765	0.004	0.120	2.443	0.154	37.78	4.47
-17.140	1.08	0.39	4.422	1.809	0.073	0.181	2.322	0.135	42.32	4.99
-16.510	0.65	0.37	7.882	4.652	0.146	0.135	2.299	0.245	46.50	4.19
-15.870	0.40	0.35	-15.860	69.520	0.216	0.094	2.281	0.051	49.36	4.20
-15.240	0.11	0.30	-19.690	81.930	0.201	0.133	2.391	0.145	51.42	3.39
-14.600	-0.14	0.09	-50.120	71.470	0.257	0.100	2.435	0.311	53.70	0.47
-13.970	-0.37	0.22	-12.970	8.233	0.265	0.125	2.578	0.244	55.80	3.97
-13.330	-0.63	0.45	-8.721	7.350	0.304	0.118	2.416	0.149	58.44	4.88
-12.700	-0.94	0.29	-4.146	1.315	0.349	0.136	2.586	0.180	61.86	4.31
-12.060	-1.29	0.57	-3.342	2.569	0.468	0.191	2.853	0.503	66.38	6.96
-11.430	-1.25	0.32	-2.850	0.773	0.450	0.138	2.953	0.488	66.46	3.42
-10.790	-1.45	0.31	-2.371	0.511	0.508	0.181	2.906	0.379	69.28	3.84
-10.160	-1.71	0.19	-1.868	0.296	0.553	0.115	3.034	0.346	72.96	2.14
-9.522	-1.92	0.14	-1.625	0.168	0.564	0.087	3.171	0.104	74.78	1.89
-8.887	-2.02	0.29	-1.493	0.261	0.532	0.040	3.266	0.105	76.56	3.66
-8.252	-2.08	0.29	-1.408	0.247	0.619	0.261	3.816	1.534	78.32	3.47
-7.617	-2.21	0.21	-1.240	0.185	0.466	0.063	3.395	0.318	80.42	3.36
-6.982	-2.19	0.21	-1.238	0.134	0.517	0.156	3.567	0.622	80.58	3.16
-6.347	-2.24	0.22	-1.154	0.171	0.489	0.123	3.610	0.156	81.82	3.51
-5.712	-1.88	0.16	-1.360	0.141	0.501	0.204	4.039	0.992	78.22	2.54
-5.077	-0.98	0.32	-3.021	1.170	0.419	0.103	3.308	0.354	66.42	4.84
-4.442	1.17	0.73	3.640	2.562	0.414	0.100	3.191	0.225	38.64	9.77
-3.807	4.50	0.95	0.878	0.167	0.356	0.117	3.153	0.242	12.24	4.86
-3.172	8.65	0.87	0.535	0.038	0.291	0.096	2.977	0.206	1.86	0.64
-2.537	14.29	0.99	0.372	0.033	-0.046	0.093	2.443	0.098	0.16	0.19
-1.902	20.46	0.75	0.236	0.022	-0.670	0.170	3.127	0.365	0.00	0.00
-1.267	25.01	0.18	0.137	0.006	-1.156	0.055	4.883	0.252	0.00	0.00
-0.632	27.71	0.55	0.080	0.011	-1.757	0.825	11.250	9.976	0.00	0.00
1.270	29.53	0.15	0.038	0.011	-2.773	2.664	22.210	21.080	0.00	0.00
2.540	29.62	0.22	0.031	0.015	-3.369	5.205	43.180	76.830	0.00	0.00
3.810	29.48	0.21	0.030	0.015	-1.970	3.695	18.900	27.290	0.00	0.00
5.080	29.44	0.27	0.025	0.010	-1.071	2.970	11.430	22.940	0.00	0.00

Table 26. (Continued)

6.350	29.25	0.19	0.021	0.002	-0.048	0.245	2.883	0.460	0.00	0.00
7.620	29.19	0.16	0.020	0.002	0.103	0.330	3.220	0.650	0.00	0.00
8.890	29.11	0.23	0.021	0.002	-0.014	0.221	3.370	0.757	0.00	0.00
10.160	29.05	0.19	0.021	0.002	0.079	0.279	3.021	0.404	0.00	0.00
11.430	28.93	0.17	0.022	0.001	-0.118	0.228	3.035	0.356	0.00	0.00
12.700	28.93	0.26	0.022	0.003	-0.154	0.725	4.137	2.947	0.00	0.00
13.970	28.80	0.22	0.022	0.003	0.034	0.216	3.347	0.629	0.00	0.00
15.240	28.75	0.22	0.022	0.001	0.129	0.330	3.435	0.495	0.00	0.00
16.510	28.64	0.16	0.022	0.003	0.091	0.438	4.027	2.106	0.00	0.00
17.780	28.56	0.25	0.022	0.003	0.106	0.142	3.271	0.444	0.00	0.00
19.050	28.53	0.21	0.021	0.002	-0.075	0.356	3.694	0.474	0.00	0.00
20.320	28.54	0.24	0.021	0.001	0.075	0.198	3.072	0.187	0.00	0.00
21.590	28.46	0.27	0.021	0.001	-0.026	0.378	3.336	0.903	0.00	0.00
22.860	28.49	0.27	0.021	0.002	-0.072	0.313	3.485	1.107	0.00	0.00
24.130	28.43	0.26	0.021	0.001	0.055	0.092	3.400	0.479	0.00	0.00
25.400	28.37	0.29	0.021	0.002	0.110	0.146	3.229	0.273	0.00	0.00
26.670	28.33	0.20	0.022	0.001	0.018	0.422	3.424	0.506	0.00	0.00
27.940	28.28	0.21	0.022	0.002	0.133	0.135	2.963	0.215	0.00	0.00
29.210	28.36	0.29	0.023	0.002	0.115	0.097	3.296	0.348	0.00	0.00
30.480	28.22	0.22	0.022	0.001	0.157	0.386	3.056	0.611	0.00	0.00
31.750	28.26	0.23	0.023	0.002	-0.066	0.466	3.632	2.061	0.00	0.00
33.020	28.25	0.25	0.022	0.002	-0.114	0.307	3.367	0.462	0.00	0.00
34.290	28.24	0.27	0.022	0.002	0.169	0.210	3.266	0.512	0.00	0.00

Table 27. Wake Measurements at 109.6% Chord for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
-66.040	28.78	0.05	0.023	0.001	-0.121	0.205	3.284	0.562	0.00	0.00
-64.770	28.82	0.13	0.023	0.003	-0.010	0.250	3.585	0.826	0.00	0.00
-63.500	28.90	0.20	0.023	0.004	-0.081	0.596	4.305	2.665	0.00	0.00
-62.230	28.88	0.17	0.024	0.002	-0.285	0.515	4.521	1.627	0.00	0.00
-60.960	28.90	0.22	0.024	0.002	0.022	0.387	3.599	0.684	0.00	0.00
-59.690	28.90	0.09	0.023	0.002	-0.038	0.297	3.125	0.470	0.00	0.00
-58.420	28.87	0.24	0.025	0.004	-0.225	0.543	3.921	1.833	0.00	0.00
-57.150	28.91	0.12	0.026	0.005	-0.783	2.063	9.722	17.050	0.00	0.00
-55.880	28.98	0.09	0.026	0.003	-0.122	0.428	3.480	1.123	0.00	0.00
-54.610	29.01	0.18	0.026	0.005	-0.095	0.243	3.681	0.605	0.00	0.00
-53.340	29.08	0.15	0.028	0.003	-0.282	0.936	4.773	4.025	0.00	0.00
-52.070	28.95	0.09	0.028	0.005	-0.182	0.273	4.428	1.448	0.00	0.00
-50.800	28.95	0.17	0.039	0.024	-0.982	2.197	8.591	9.754	0.00	0.00
-49.530	28.94	0.12	0.043	0.009	-2.576	1.804	20.520	12.500	0.00	0.00
-48.260	28.91	0.13	0.045	0.009	-2.360	1.402	15.600	10.570	0.00	0.00
-46.990	28.79	0.16	0.054	0.015	-2.838	1.561	19.680	14.530	0.00	0.00
-45.720	28.30	0.10	0.073	0.007	-2.750	0.783	15.900	8.641	0.00	0.00
-44.450	27.43	0.38	0.104	0.016	-2.146	0.525	10.050	3.976	0.00	0.00
-43.810	27.39	0.51	0.104	0.023	-2.213	0.386	10.820	3.542	0.00	0.00
-43.180	26.65	0.26	0.121	0.013	-1.719	0.227	7.478	1.917	0.00	0.00
-42.540	25.87	0.60	0.143	0.016	-1.608	0.407	6.630	2.517	0.00	0.00
-41.910	25.42	0.66	0.148	0.018	-1.501	0.088	6.250	0.611	0.00	0.00
-41.270	24.41	0.70	0.171	0.021	-1.196	0.261	4.985	1.304	0.00	0.00
-40.640	23.87	0.73	0.186	0.020	-1.203	0.193	4.964	0.564	0.04	0.07
-40.000	22.62	0.55	0.205	0.016	-1.012	0.179	4.344	0.800	0.04	0.11
-39.370	21.47	0.63	0.230	0.018	-0.903	0.142	4.034	0.522	0.10	0.15
-38.730	20.80	0.94	0.246	0.020	-0.837	0.175	3.778	0.562	0.12	0.20
-38.100	19.53	1.03	0.262	0.027	-0.762	0.122	3.712	0.475	0.20	0.38
-37.460	18.90	0.84	0.271	0.030	-0.638	0.090	3.443	0.217	0.18	0.27
-36.830	17.85	0.41	0.299	0.014	-0.648	0.193	3.557	0.643	0.38	0.22
-36.190	16.84	0.39	0.318	0.014	-0.557	0.074	3.209	0.171	0.26	0.19
-35.560	16.11	0.61	0.338	0.022	-0.537	0.079	3.361	0.206	0.76	0.07
-34.920	14.90	0.72	0.374	0.020	-0.590	0.220	3.448	0.627	1.32	0.82
-34.290	13.85	0.73	0.410	0.029	-0.524	0.159	3.393	0.264	1.84	1.00
-33.650	13.39	0.85	0.406	0.043	-0.464	0.121	3.300	0.212	1.78	0.99
-33.020	12.33	0.47	0.460	0.008	-0.454	0.181	3.174	0.349	2.62	0.49
-32.380	11.51	0.52	0.482	0.021	-0.443	0.103	3.250	0.301	3.24	0.50
-31.750	10.57	0.53	0.542	0.028	-0.475	0.095	3.247	0.255	4.98	0.67
-31.110	9.94	0.66	0.552	0.046	-0.379	0.106	3.170	0.250	4.74	0.72

Table 27. (Continued)

-30.480	8.91	0.65	0.625	0.059	-0.443	0.107	3.111	0.157	6.94	1.86
-29.840	7.98	0.46	0.683	0.072	-0.381	0.116	3.038	0.253	8.84	3.10
-29.210	7.52	0.33	0.726	0.056	-0.397	0.063	3.036	0.173	10.04	2.00
-28.570	6.65	0.26	0.838	0.044	-0.310	0.101	2.892	0.214	12.92	1.56
-27.940	6.34	0.40	0.873	0.070	-0.344	0.060	2.849	0.201	13.96	2.37
-27.300	5.46	0.28	1.011	0.094	-0.263	0.103	2.707	0.169	17.76	2.39
-26.670	5.26	0.39	1.032	0.117	-0.274	0.088	2.762	0.199	17.82	2.78
-26.030	4.24	0.66	1.307	0.207	-0.205	0.079	2.553	0.189	23.66	3.32
-25.400	3.86	0.55	1.456	0.197	-0.111	0.055	2.474	0.180	26.18	3.12
-24.760	3.05	0.43	1.772	0.300	-0.042	0.179	2.434	0.079	30.18	4.19
-24.130	2.81	0.46	1.919	0.431	-0.079	0.090	2.423	0.117	31.16	4.33
-23.490	2.15	0.61	2.546	0.614	-0.015	0.123	2.271	0.140	36.84	4.39
-22.860	1.57	0.31	3.308	0.571	0.068	0.083	2.386	0.142	39.88	3.48
-22.220	1.25	0.46	4.366	1.726	0.076	0.076	2.280	0.084	42.32	3.67
-21.590	0.81	0.38	7.471	6.107	0.189	0.100	2.495	0.189	45.70	2.50
-20.950	0.54	0.46	14.250	14.840	0.215	0.143	2.384	0.167	48.28	3.62
-20.320	-0.20	0.42	-24.740	47.230	0.369	0.075	2.624	0.364	54.84	3.82
-19.680	-0.52	0.48	20.160	77.550	0.363	0.156	2.556	0.229	57.68	4.86
-19.050	-0.59	0.51	-11.910	10.420	0.413	0.155	2.705	0.325	58.86	5.17
-18.410	-0.79	0.40	-6.397	3.518	0.417	0.125	2.676	0.166	59.94	4.65
-17.780	-1.28	0.28	-3.300	0.675	0.513	0.118	2.925	0.271	65.72	2.44
-17.140	-1.52	0.38	-2.681	0.637	0.584	0.259	3.456	1.687	67.94	3.01
-16.510	-1.86	0.43	-2.140	0.585	0.703	0.341	3.935	1.990	72.00	4.30
-15.870	-1.87	0.43	-2.091	0.604	0.488	0.200	2.950	0.307	71.16	5.08
-15.240	-2.10	0.29	-1.755	0.278	0.601	0.123	3.282	0.470	74.28	2.73
-14.600	-2.36	0.27	-1.493	0.226	0.670	0.124	3.671	0.396	78.04	3.64
-13.970	-2.44	0.30	-1.329	0.193	0.653	0.298	4.171	1.653	80.02	2.81
-13.330	-2.36	0.24	-1.363	0.186	0.603	0.161	3.892	0.805	79.14	2.13
-12.700	-2.46	0.21	-1.286	0.147	0.548	0.051	3.691	0.360	80.22	1.65
-12.060	-2.41	0.18	-1.287	0.123	0.577	0.108	3.719	0.514	80.08	2.72
-11.430	-2.31	0.11	-1.291	0.074	0.617	0.290	4.444	1.918	79.80	1.38
-10.790	-2.03	0.07	-1.476	0.054	0.371	0.109	3.512	0.376	76.42	1.54
-10.160	-1.39	0.23	-2.202	0.397	0.334	0.080	3.292	0.328	69.98	2.93
-9.522	-0.62	0.31	-5.816	2.483	0.367	0.053	3.157	0.282	59.82	4.37
-8.887	0.56	0.48	23.120	48.070	0.238	0.061	3.013	0.191	45.56	4.64
-8.252	2.14	0.68	1.865	0.575	0.278	0.091	3.099	0.216	29.66	5.42
-7.617	4.23	0.54	0.969	0.124	0.264	0.135	3.118	0.292	14.68	3.42
-6.982	6.61	0.82	0.664	0.067	0.278	0.099	3.166	0.289	5.32	2.48
-6.347	9.14	0.79	0.517	0.043	0.155	0.055	2.861	0.166	2.22	0.71
-5.712	12.56	1.13	0.403	0.032	0.080	0.099	2.646	0.119	0.34	0.36
-5.077	16.37	1.15	0.318	0.027	-0.216	0.148	2.578	0.165	0.06	0.07
-4.442	20.54	1.19	0.239	0.025	-0.605	0.159	2.980	0.314	0.00	0.00
-3.807	23.97	0.82	0.173	0.020	-1.130	0.141	4.410	0.631	0.00	0.00
-3.172	26.46	0.34	0.119	0.007	-1.679	0.221	7.931	1.418	0.00	0.00
-2.537	27.91	0.23	0.085	0.013	-2.042	1.067	12.090	9.205	0.00	0.00

Table 27. (Continued)

-1.267	29.25	0.11	0.045	0.016	-2.113	3.015	20.780	26.940	0.00	0.00
1.270	29.45	0.10	0.030	0.011	-2.117	3.122	19.670	25.290	0.00	0.00
2.540	29.44	0.16	0.024	0.002	0.161	0.228	3.358	0.424	0.00	0.00
3.810	29.31	0.17	0.024	0.002	0.000	0.297	3.403	0.399	0.00	0.00
5.080	29.22	0.14	0.022	0.001	0.058	0.196	2.986	0.278	0.00	0.00
6.350	29.20	0.09	0.024	0.003	0.048	0.322	3.130	0.528	0.00	0.00
7.620	29.17	0.14	0.024	0.002	-0.023	0.368	3.484	0.990	0.00	0.00
8.890	29.11	0.12	0.023	0.002	0.144	0.388	3.252	0.632	0.00	0.00
10.160	29.04	0.13	0.023	0.001	0.204	0.193	3.359	0.567	0.00	0.00
11.430	28.93	0.16	0.023	0.001	0.128	0.123	3.148	0.113	0.00	0.00
12.700	28.93	0.30	0.023	0.002	0.052	0.203	3.118	0.655	0.00	0.00
13.970	28.90	0.12	0.023	0.002	0.156	0.328	3.265	1.103	0.00	0.00
15.240	28.75	0.12	0.023	0.004	0.059	0.277	3.334	0.310	0.00	0.00
16.510	28.79	0.21	0.024	0.001	-0.106	0.291	3.143	0.517	0.00	0.00
17.780	28.73	0.09	0.024	0.001	0.173	0.223	3.186	0.340	0.00	0.00
19.050	28.71	0.18	0.023	0.001	-0.106	0.182	3.496	0.283	0.00	0.00
20.320	28.71	0.14	0.025	0.002	0.096	0.181	3.207	0.338	0.00	0.00
21.590	28.61	0.17	0.024	0.002	0.293	0.249	3.580	0.537	0.00	0.00
22.860	28.65	0.11	0.024	0.001	0.152	0.308	3.358	0.679	0.00	0.00
24.130	28.59	0.13	0.023	0.002	0.232	0.280	3.388	0.922	0.00	0.00

Table 28. Wake Measurements at 152.6% Chord for an incidence angle of +5.0 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
-137.300	26.13	0.12	----	----	----	----	----	----	----	----
-134.100	26.27	0.06	----	----	----	----	----	----	----	----
-131.000	26.25	0.14	----	----	----	----	----	----	----	----
-127.800	26.15	0.19	----	----	----	----	----	----	----	----
-124.600	26.04	0.23	----	----	----	----	----	----	----	----
-121.400	25.79	0.25	----	----	----	----	----	----	----	----
-118.300	25.38	0.20	----	----	----	----	----	----	----	----
-115.100	25.02	0.20	----	----	----	----	----	----	----	----
-111.900	24.60	0.28	----	----	----	----	----	----	----	----
-108.700	23.77	0.27	----	----	----	----	----	----	----	----
-105.600	22.64	0.52	----	----	----	----	----	----	----	----
-102.400	22.12	0.91	----	----	----	----	----	----	----	----
-99.210	20.81	0.77	----	----	----	----	----	----	----	----
-96.030	19.32	0.61	----	----	----	----	----	----	----	----
-92.860	18.04	1.07	----	----	----	----	----	----	----	----
-89.680	16.33	0.62	----	----	----	----	----	----	----	----
-86.510	14.69	0.84	----	----	----	----	----	----	----	----
-83.330	13.17	0.82	----	----	----	----	----	----	----	----
-80.160	11.84	0.40	----	----	----	----	----	----	----	----
-76.980	10.74	0.76	----	----	----	----	----	----	----	----
-73.810	9.69	0.49	----	----	----	----	----	----	----	----
-70.630	9.32	0.59	----	----	----	----	----	----	----	----
-67.460	9.16	0.39	----	----	----	----	----	----	----	----
-64.280	9.58	0.57	----	----	----	----	----	----	----	----
-61.110	10.60	0.74	----	----	----	----	----	----	----	----
-57.930	12.26	0.51	----	----	----	----	----	----	----	----
-54.760	14.20	0.88	----	----	----	----	----	----	----	----
-51.580	16.11	0.95	----	----	----	----	----	----	----	----
-48.410	18.33	0.96	----	----	----	----	----	----	----	----
-45.230	20.22	0.99	----	----	----	----	----	----	----	----
-42.060	22.08	0.68	----	----	----	----	----	----	----	----
-38.880	23.55	0.55	----	----	----	----	----	----	----	----
-35.710	24.78	0.48	----	----	----	----	----	----	----	----
-32.530	25.43	0.29	----	----	----	----	----	----	----	----
-29.360	25.90	0.17	----	----	----	----	----	----	----	----
-26.180	26.05	0.10	----	----	----	----	----	----	----	----
-23.010	26.16	0.08	----	----	----	----	----	----	----	----
-19.830	26.15	0.05	----	----	----	----	----	----	----	----
-16.660	26.17	0.07	----	----	----	----	----	----	----	----

Table 28. (Continued)

-13.480	26.14	0.06	----	----	----	----	----	----	----	----

Table 29. Boundary Layer Measurements at 4.3% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.127	21.89	0.87	0.087	0.017	-1.911	0.720	9.300	4.023	0.00	0.00
0.254	23.86	0.13	0.048	0.010	-2.822	0.765	16.250	5.993	0.00	0.00
1.270	24.44	0.11	0.027	0.002	-0.156	0.438	4.045	0.390	0.00	0.00
2.540	24.67	0.14	0.026	0.001	-0.135	0.461	3.986	1.383	0.00	0.00
3.810	24.90	0.17	0.025	0.001	0.206	0.213	4.086	0.610	0.00	0.00
5.080	25.25	0.06	0.025	0.002	0.159	0.130	3.081	0.394	0.00	0.00
6.350	25.48	0.07	0.025	0.003	0.248	0.362	3.628	1.037	0.00	0.00
7.620	25.73	0.15	0.024	0.002	0.239	0.338	3.361	1.096	0.00	0.00
8.890	25.98	0.09	0.024	0.002	0.239	0.407	3.836	0.656	0.00	0.00
10.160	26.39	0.11	0.023	0.002	0.254	0.169	3.421	0.712	0.00	0.00
11.430	26.52	0.16	0.023	0.002	0.252	0.149	3.394	0.517	0.00	0.00
12.700	26.77	0.08	0.023	0.002	0.194	0.096	3.500	0.549	0.00	0.00
13.970	27.03	0.04	0.023	0.001	0.165	0.245	3.599	0.508	0.00	0.00
15.240	27.37	0.09	0.024	0.002	0.476	0.222	4.098	0.652	0.00	0.00
16.510	27.55	0.13	0.023	0.001	0.239	0.068	2.730	0.182	0.00	0.00
17.780	27.76	0.06	0.024	0.001	0.351	0.203	3.600	0.760	0.00	0.00
19.050	27.96	0.12	0.024	0.002	0.064	0.287	3.323	0.964	0.00	0.00
20.320	28.25	0.13	0.022	0.001	0.295	0.172	3.735	0.490	0.00	0.00
21.590	28.48	0.06	0.024	0.002	0.466	0.285	3.701	0.988	0.00	0.00
22.860	28.64	0.14	0.024	0.002	0.099	0.243	3.347	0.440	0.00	0.00
24.130	28.83	0.14	0.022	0.001	0.164	0.186	2.988	0.704	0.00	0.00
25.400	28.97	0.07	0.023	0.002	0.331	0.375	3.286	0.583	0.00	0.00

Table 30. Boundary Layer Measurements at 9.7% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.127	19.81	0.40	0.093	0.006	-0.300	0.375	3.495	1.164	0.00	0.00
0.254	23.33	0.24	0.031	0.002	-0.166	0.239	3.154	0.844	0.00	0.00
0.508	24.57	0.08	0.022	0.002	-0.191	0.288	3.680	1.190	0.00	0.00
1.270	24.76	0.09	0.022	0.002	0.165	0.187	3.783	0.793	0.00	0.00
2.540	24.84	0.06	0.022	0.002	0.189	0.478	4.053	2.337	0.00	0.00
3.810	24.99	0.08	0.022	0.001	0.098	0.223	3.363	0.453	0.00	0.00
5.080	25.16	0.09	0.022	0.002	0.091	0.269	3.428	0.991	0.00	0.00
6.350	25.31	0.11	0.022	0.002	0.168	0.155	3.193	0.433	0.00	0.00
7.620	25.50	0.10	0.022	0.002	0.134	0.090	3.125	0.391	0.00	0.00
8.890	25.69	0.08	0.023	0.002	0.160	0.261	3.551	1.144	0.00	0.00
10.160	25.86	0.06	0.022	0.001	0.024	0.266	3.373	0.335	0.00	0.00
11.430	25.96	0.05	0.022	0.002	0.168	0.168	3.642	0.540	0.00	0.00
12.700	26.18	0.07	0.021	0.001	0.099	0.269	3.338	0.276	0.00	0.00
13.970	26.38	0.09	0.022	0.001	0.262	0.255	3.450	0.655	0.00	0.00
15.240	26.57	0.07	0.022	0.002	0.241	0.124	3.055	0.677	0.00	0.00
16.510	26.69	0.08	0.021	0.002	0.079	0.105	3.093	0.294	0.00	0.00
17.780	26.89	0.07	0.022	0.002	0.197	0.208	3.659	0.622	0.00	0.00
19.050	27.08	0.09	0.021	0.002	0.118	0.278	3.417	0.341	0.00	0.00
20.320	27.19	0.08	0.021	0.001	0.275	0.218	3.656	0.370	0.00	0.00
21.590	27.41	0.07	0.021	0.002	0.385	0.494	4.224	1.555	0.00	0.00
22.860	27.56	0.07	0.021	0.001	0.248	0.179	3.151	0.526	0.00	0.00
24.130	27.77	0.11	0.022	0.001	0.133	0.129	2.803	0.203	0.00	0.00
25.400	27.95	0.12	0.021	0.002	0.263	0.278	3.596	0.896	0.00	0.00

Table 31. Boundary Layer Measurements at 20.5% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	13.25	0.49	0.134	0.006	0.170	0.264	6.293	2.112	0.00	0.00
0.381	18.12	0.64	0.087	0.010	0.055	0.306	4.669	1.257	0.00	0.00
0.508	21.06	0.33	0.054	0.010	-0.839	0.810	7.312	4.999	0.00	0.00
0.635	22.59	0.20	0.037	0.009	-0.850	1.324	8.253	7.475	0.00	0.00
0.762	23.40	0.11	0.026	0.002	0.113	0.291	3.368	0.731	0.00	0.00
1.016	23.77	0.10	0.023	0.002	0.027	0.186	3.178	0.455	0.00	0.00
1.270	23.86	0.06	0.024	0.002	0.163	0.206	3.449	0.213	0.00	0.00
2.540	24.00	0.07	0.024	0.002	0.068	0.175	3.434	0.845	0.00	0.00
3.810	24.09	0.07	0.023	0.002	0.149	0.251	3.523	0.477	0.00	0.00
5.080	24.22	0.05	0.024	0.002	0.102	0.255	3.205	0.570	0.00	0.00
6.350	24.37	0.09	0.022	0.000	0.083	0.203	3.130	0.156	0.00	0.00
7.620	24.49	0.09	0.023	0.001	0.086	0.135	3.338	0.713	0.00	0.00
8.890	24.59	0.10	0.022	0.001	0.328	0.128	3.305	0.200	0.00	0.00
10.160	24.73	0.09	0.022	0.001	0.185	0.279	3.492	0.891	0.00	0.00
11.430	24.82	0.09	0.023	0.001	0.055	0.264	2.931	0.447	0.00	0.00
12.700	24.97	0.07	0.022	0.001	0.043	0.241	3.318	0.631	0.00	0.00
13.970	25.13	0.09	0.023	0.001	0.135	0.256	3.571	0.491	0.00	0.00
15.240	25.31	0.09	0.022	0.002	0.058	0.137	2.957	0.464	0.00	0.00
16.510	25.43	0.06	0.023	0.003	0.078	0.231	3.175	0.571	0.00	0.00
17.780	25.57	0.03	0.022	0.001	0.216	0.245	3.040	0.241	0.00	0.00
19.050	25.73	0.08	0.023	0.002	-0.027	0.232	3.608	0.646	0.00	0.00
20.320	25.80	0.13	0.022	0.002	0.021	0.243	3.383	0.265	0.00	0.00
21.590	25.91	0.05	0.021	0.001	0.020	0.316	3.306	0.499	0.00	0.00
22.860	26.06	0.07	0.021	0.001	0.366	0.455	3.952	0.732	0.00	0.00
24.130	26.22	0.08	0.021	0.001	0.007	0.187	3.402	0.505	0.00	0.00
25.400	26.43	0.11	0.022	0.001	0.171	0.173	3.139	0.708	0.00	0.00

Table 32. Boundary Layer Measurements at 30.3% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	9.18	0.14	0.173	0.003	0.763	0.342	7.330	2.373	0.00	0.00
0.381	12.28	0.36	0.156	0.007	0.322	0.307	4.770	0.743	0.00	0.00
0.508	15.59	0.26	0.131	0.009	-0.431	0.266	5.239	0.771	0.00	0.00
0.635	18.85	0.27	0.091	0.008	-1.145	0.540	7.851	2.941	0.00	0.00
0.762	20.65	0.13	0.059	0.006	-1.237	0.702	8.188	3.830	0.00	0.00
0.889	21.75	0.13	0.042	0.007	-0.931	0.941	7.820	5.457	0.00	0.00
1.016	22.45	0.09	0.030	0.003	-0.004	0.291	3.269	0.573	0.00	0.00
1.270	23.04	0.08	0.024	0.001	0.145	0.264	3.768	0.698	0.00	0.00
2.540	23.27	0.07	0.023	0.001	0.132	0.169	3.474	0.832	0.00	0.00
3.810	23.40	0.05	0.024	0.001	0.139	0.310	3.572	0.527	0.00	0.00
5.080	23.51	0.06	0.023	0.001	0.009	0.160	3.121	0.485	0.00	0.00
6.350	23.60	0.06	0.024	0.001	0.155	0.202	3.359	0.400	0.00	0.00
7.620	23.75	0.04	0.025	0.001	0.020	0.278	3.338	0.504	0.00	0.00
8.890	23.86	0.08	0.023	0.002	0.119	0.241	3.435	0.544	0.00	0.00
10.160	23.96	0.10	0.024	0.002	0.249	0.123	3.419	0.422	0.00	0.00
11.430	24.10	0.07	0.024	0.002	0.290	0.346	3.920	0.387	0.00	0.00
12.700	24.17	0.06	0.023	0.002	0.234	0.273	3.595	0.793	0.00	0.00
13.970	24.32	0.10	0.024	0.001	0.143	0.258	3.341	0.321	0.00	0.00
15.240	24.47	0.08	0.023	0.001	0.225	0.147	3.330	0.327	0.00	0.00
16.510	24.50	0.06	0.022	0.002	-0.063	0.232	3.085	0.392	0.00	0.00
17.780	24.65	0.05	0.023	0.001	0.109	0.112	3.208	0.323	0.00	0.00
19.050	24.82	0.06	0.023	0.001	0.245	0.246	3.739	0.769	0.00	0.00
20.320	24.90	0.10	0.022	0.001	-0.001	0.211	3.226	0.488	0.00	0.00
21.590	25.06	0.09	0.022	0.001	0.074	0.211	3.475	0.368	0.00	0.00
22.860	25.22	0.09	0.023	0.002	0.118	0.120	3.252	0.321	0.00	0.00
24.130	25.37	0.06	0.023	0.001	0.171	0.198	3.191	0.430	0.00	0.00
25.400	25.48	0.07	0.023	0.002	0.189	0.164	2.904	0.208	0.00	0.00

Table 33. Boundary Layer Measurements at 40.0% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	6.52	0.40	0.295	0.032	0.993	0.676	9.063	4.675	0.05	0.06
0.381	8.77	0.40	0.244	0.017	0.363	0.264	4.524	0.572	0.03	0.09
0.508	11.29	0.80	0.242	0.010	0.106	0.313	3.635	0.640	0.00	0.00
0.762	16.58	0.72	0.184	0.021	-1.263	0.356	5.215	1.332	0.00	0.00
1.016	20.08	0.41	0.110	0.017	-2.940	0.470	15.410	5.070	0.00	0.00
1.270	21.76	0.14	0.047	0.021	-2.079	1.405	12.750	7.578	0.00	0.00
1.524	22.29	0.10	0.026	0.002	-0.143	0.200	3.611	0.927	0.00	0.00
2.540	22.54	0.06	0.026	0.001	-0.034	0.224	3.551	0.321	0.00	0.00
3.810	22.65	0.09	0.025	0.002	0.061	0.345	3.829	0.845	0.00	0.00
5.080	22.74	0.05	0.024	0.002	0.229	0.094	3.263	0.409	0.00	0.00
6.350	22.84	0.05	0.025	0.002	0.320	0.181	3.409	0.639	0.00	0.00
7.620	22.99	0.05	0.024	0.002	0.225	0.252	3.377	0.699	0.00	0.00
8.890	23.09	0.08	0.025	0.002	0.056	0.101	3.511	0.971	0.00	0.00
10.160	23.28	0.06	0.024	0.002	0.055	0.329	3.829	1.052	0.00	0.00
11.430	23.32	0.08	0.025	0.001	0.226	0.301	3.288	0.411	0.00	0.00
12.700	23.45	0.05	0.023	0.001	0.026	0.199	3.377	0.566	0.00	0.00
13.970	23.56	0.05	0.024	0.002	-0.034	0.302	3.694	0.610	0.00	0.00
15.240	23.73	0.04	0.023	0.002	0.185	0.158	3.332	0.663	0.00	0.00
16.510	23.80	0.03	0.023	0.001	-0.072	0.167	3.109	0.416	0.00	0.00
17.780	23.91	0.08	0.023	0.001	0.087	0.224	3.144	0.355	0.00	0.00
19.050	24.06	0.09	0.024	0.001	0.017	0.170	3.114	0.247	0.00	0.00
20.320	24.11	0.07	0.023	0.002	0.107	0.257	3.396	0.745	0.00	0.00
21.590	24.28	0.10	0.023	0.001	0.221	0.217	3.399	0.433	0.00	0.00
22.860	24.36	0.06	0.024	0.002	0.221	0.158	3.131	0.402	0.00	0.00
24.130	24.49	0.03	0.026	0.006	-0.741	2.157	11.200	20.790	0.00	0.00
25.400	24.62	0.07	0.023	0.002	0.162	0.271	3.538	0.668	0.00	0.00

Table 34. Boundary Layer Measurements at 49.7% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	6.62	0.18	0.446	0.019	0.995	0.128	4.601	0.752	0.00	0.00
0.381	8.21	0.17	0.398	0.019	0.617	0.092	3.427	0.244	0.00	0.00
0.508	9.85	0.35	0.377	0.010	0.352	0.074	2.703	0.144	0.00	0.00
0.762	13.08	0.29	0.331	0.007	-0.177	0.025	2.171	0.057	0.00	0.00
1.016	16.17	0.36	0.294	0.017	-0.817	0.115	2.541	0.226	0.00	0.00
1.270	19.11	0.23	0.209	0.012	-1.814	0.166	5.432	0.712	0.00	0.00
1.524	20.80	0.19	0.133	0.012	-3.277	0.326	14.130	2.516	0.00	0.00
2.032	21.99	0.06	0.026	0.002	-0.557	0.946	6.547	6.452	0.00	0.00
2.540	22.11	0.07	0.026	0.002	0.403	0.326	4.330	1.977	0.00	0.00
3.810	22.19	0.06	0.025	0.002	0.112	0.198	3.341	0.165	0.00	0.00
5.080	22.33	0.07	0.025	0.001	0.104	0.416	3.714	1.202	0.00	0.00
6.350	22.41	0.06	0.025	0.001	0.229	0.248	3.072	0.305	0.00	0.00
7.620	22.54	0.08	0.025	0.001	-0.010	0.310	3.582	0.650	0.00	0.00
8.890	22.63	0.07	0.024	0.002	0.061	0.237	3.183	0.344	0.00	0.00
10.160	22.77	0.08	0.023	0.001	-0.014	0.331	3.453	0.431	0.00	0.00
11.430	22.88	0.06	0.025	0.001	0.213	0.267	3.482	0.776	0.00	0.00
12.700	22.98	0.07	0.025	0.001	0.088	0.083	3.906	1.048	0.00	0.00
13.970	23.08	0.08	0.023	0.002	0.207	0.147	3.458	0.486	0.00	0.00
15.240	23.21	0.06	0.023	0.001	0.146	0.325	3.610	0.598	0.00	0.00
16.510	23.31	0.06	0.024	0.002	0.033	0.190	3.208	0.448	0.00	0.00
17.780	23.44	0.04	0.024	0.002	0.006	0.351	3.298	0.531	0.00	0.00
19.050	23.54	0.11	0.024	0.002	0.221	0.261	3.676	0.861	0.00	0.00
20.320	23.63	0.06	0.024	0.001	0.230	0.130	3.512	0.517	0.00	0.00
21.590	23.75	0.07	0.022	0.001	-0.057	0.159	3.000	0.368	0.00	0.00
22.860	23.88	0.06	0.023	0.002	0.072	0.432	3.611	1.003	0.00	0.00
24.130	23.97	0.06	0.023	0.002	0.154	0.192	3.781	0.579	0.00	0.00
25.400	24.08	0.07	0.023	0.001	0.217	0.153	3.650	0.394	0.00	0.00

Table 35. Boundary Layer Measurements at 55.1% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	8.77	0.22	0.462	0.017	0.570	0.043	2.713	0.172	0.02	0.04
0.381	10.35	0.37	0.404	0.006	0.312	0.056	2.365	0.120	0.02	0.04
0.508	12.01	0.27	0.366	0.009	0.055	0.076	2.145	0.054	0.00	0.00
0.762	14.25	0.48	0.323	0.021	-0.289	0.132	2.052	0.145	0.00	0.00
1.016	15.98	0.62	0.304	0.020	-0.623	0.154	2.235	0.260	0.00	0.00
1.270	18.46	0.44	0.240	0.019	-1.346	0.194	3.699	0.603	0.00	0.00
1.524	20.00	0.24	0.181	0.014	-2.111	0.219	6.794	1.265	0.02	0.04
2.032	21.48	0.14	0.092	0.005	-4.135	0.517	23.140	5.208	0.00	0.00
2.540	21.94	0.14	0.040	0.015	-2.354	2.422	18.490	16.850	0.00	0.00
3.810	22.14	0.02	0.026	0.001	0.089	0.217	3.143	0.348	0.00	0.00
5.080	22.28	0.05	0.025	0.002	0.097	0.145	3.240	0.121	0.00	0.00
6.350	22.38	0.09	0.023	0.001	0.350	0.259	3.609	0.600	0.00	0.00
7.620	22.51	0.15	0.024	0.001	0.243	0.250	3.032	0.572	0.00	0.00
8.890	22.62	0.13	0.024	0.001	0.181	0.312	3.235	0.538	0.00	0.00
10.160	22.74	0.07	0.025	0.002	-0.064	0.217	3.485	0.503	0.00	0.00
11.430	22.84	0.12	0.024	0.002	0.061	0.338	3.302	0.681	0.00	0.00
12.700	22.98	0.13	0.023	0.002	0.044	0.106	3.057	0.464	0.00	0.00
13.970	23.10	0.13	0.024	0.000	-0.071	0.158	3.560	0.533	0.00	0.00
15.240	23.22	0.04	0.024	0.001	0.038	0.135	3.128	0.233	0.00	0.00
16.510	23.33	0.13	0.023	0.002	0.183	0.103	2.861	0.194	0.00	0.00
17.780	23.42	0.05	0.025	0.001	0.154	0.389	3.447	1.196	0.00	0.00
19.050	23.57	0.12	0.023	0.002	0.158	0.201	2.950	0.361	0.00	0.00
20.320	23.64	0.08	0.023	0.001	-0.027	0.271	3.369	0.386	0.00	0.00
21.590	23.76	0.09	0.023	0.001	0.005	0.176	3.228	0.403	0.00	0.00
22.860	23.89	0.15	0.024	0.001	0.204	0.353	3.664	0.465	0.00	0.00
24.130	23.99	0.10	0.023	0.001	-0.120	0.290	3.370	0.303	0.00	0.00
25.400	24.12	0.11	0.022	0.002	-0.019	0.177	3.061	0.312	0.00	0.00

Table 36. Boundary Layer Measurements at 60.5% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	10.58	0.65	0.384	0.026	0.252	0.145	2.368	0.157	0.00	0.00
0.381	11.96	0.60	0.348	0.025	0.059	0.164	2.300	0.155	0.00	0.00
0.508	12.95	0.46	0.322	0.021	-0.090	0.105	2.197	0.077	0.00	0.00
0.762	14.64	0.43	0.287	0.022	-0.301	0.135	2.203	0.188	0.00	0.00
1.016	16.44	0.22	0.254	0.012	-0.652	0.059	2.522	0.076	0.00	0.00
1.270	18.05	0.19	0.213	0.015	-1.077	0.046	3.316	0.206	0.00	0.00
1.524	19.22	0.13	0.178	0.011	-1.516	0.076	4.687	0.417	0.00	0.00
2.032	20.59	0.14	0.123	0.010	-2.468	0.194	9.574	1.405	0.00	0.00
2.540	21.25	0.19	0.084	0.022	-3.454	0.340	17.650	3.703	0.00	0.00
3.810	21.84	0.05	0.037	0.011	-2.887	1.932	21.740	11.850	0.00	0.00
5.080	22.07	0.09	0.023	0.001	0.262	0.408	4.028	1.266	0.00	0.00
6.350	22.15	0.08	0.023	0.001	0.108	0.500	3.778	0.856	0.00	0.00
7.620	22.23	0.04	0.023	0.001	0.158	0.242	3.421	0.574	0.00	0.00
8.890	22.39	0.03	0.023	0.001	0.106	0.192	3.188	0.315	0.00	0.00
10.160	22.56	0.06	0.024	0.002	0.196	0.144	3.337	0.456	0.00	0.00
11.430	22.57	0.04	0.023	0.001	0.110	0.396	3.458	1.036	0.00	0.00
12.700	22.76	0.07	0.022	0.002	0.079	0.367	3.806	1.198	0.00	0.00
13.970	22.83	0.07	0.022	0.001	0.038	0.380	3.273	0.339	0.00	0.00
15.240	22.93	0.07	0.022	0.002	0.019	0.149	3.272	0.648	0.00	0.00
16.510	23.06	0.05	0.022	0.002	-0.111	0.237	3.705	0.869	0.00	0.00
17.780	23.18	0.05	0.022	0.001	-0.042	0.345	4.394	0.949	0.00	0.00
19.050	23.28	0.11	0.023	0.002	0.072	0.280	3.378	0.565	0.00	0.00
20.320	23.40	0.05	0.022	0.002	-0.092	0.356	4.064	1.942	0.00	0.00
21.590	23.55	0.04	0.021	0.002	0.128	0.196	3.138	0.463	0.00	0.00
22.860	23.61	0.02	0.021	0.001	0.029	0.244	2.932	0.538	0.00	0.00
24.130	23.72	0.03	0.021	0.001	0.125	0.335	3.390	0.608	0.00	0.00
25.400	23.83	0.06	0.022	0.002	-0.026	0.763	4.686	2.402	0.00	0.00

Table 37. Boundary Layer Measurements at 70.3% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	12.84	0.23	0.281	0.014	0.044	0.097	2.419	0.285	0.00	0.00
0.381	14.40	0.16	0.236	0.005	-0.257	0.064	2.473	0.129	0.00	0.00
0.508	15.41	0.31	0.213	0.022	-0.419	0.185	2.848	0.403	0.00	0.00
0.762	16.66	0.30	0.185	0.018	-0.525	0.206	3.157	0.523	0.00	0.00
1.016	17.61	0.28	0.168	0.020	-0.752	0.259	3.414	0.811	0.00	0.00
1.524	19.21	0.17	0.132	0.005	-1.110	0.165	4.499	0.927	0.00	0.00
2.032	20.27	0.27	0.108	0.018	-1.689	0.397	6.790	2.502	0.00	0.00
2.540	20.96	0.15	0.082	0.017	-2.111	0.595	8.959	4.217	0.00	0.00
3.810	21.94	0.06	0.030	0.005	-0.813	1.173	7.252	5.258	0.00	0.00
5.080	22.15	0.05	0.023	0.001	0.003	0.304	3.736	0.559	0.00	0.00
6.350	22.28	0.04	0.022	0.001	0.147	0.262	3.615	0.442	0.00	0.00
7.620	22.40	0.04	0.021	0.001	0.241	0.229	3.312	0.556	0.00	0.00
8.890	22.49	0.04	0.022	0.002	0.159	0.276	3.620	1.031	0.00	0.00
10.160	22.63	0.02	0.022	0.002	0.062	0.206	3.096	0.617	0.00	0.00
11.430	22.74	0.06	0.022	0.002	0.135	0.185	3.502	0.592	0.00	0.00
12.700	22.85	0.03	0.021	0.001	0.077	0.171	3.741	0.877	0.00	0.00
13.970	22.99	0.08	0.022	0.002	0.238	0.191	3.819	0.466	0.00	0.00
15.240	23.08	0.07	0.022	0.002	-0.014	0.312	3.891	0.892	0.00	0.00
16.510	23.16	0.03	0.021	0.002	0.221	0.277	3.528	0.467	0.00	0.00
17.780	23.29	0.02	0.021	0.002	0.173	0.259	3.376	0.591	0.00	0.00
19.050	23.36	0.06	0.020	0.002	0.194	0.209	3.173	0.451	0.00	0.00
20.320	23.51	0.05	0.020	0.002	0.309	0.219	3.606	0.559	0.00	0.00
21.590	23.63	0.07	0.020	0.001	0.060	0.286	3.288	0.307	0.00	0.00
22.860	23.69	0.05	0.020	0.001	-0.046	0.147	3.279	0.480	0.00	0.00
24.130	23.80	0.05	0.019	0.002	0.137	0.214	3.476	0.374	0.00	0.00
25.400	23.93	0.03	0.021	0.002	0.133	0.212	3.814	0.359	0.00	0.00

Table 38. Boundary Layer Measurements at 80.0% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	14.38	0.13	0.242	0.009	-0.074	0.098	2.335	0.178	0.00	0.00
0.381	15.57	0.12	0.207	0.011	-0.314	0.108	2.649	0.356	0.00	0.00
0.508	16.47	0.29	0.180	0.004	-0.439	0.076	2.885	0.276	0.00	0.00
0.762	17.69	0.18	0.147	0.013	-0.551	0.065	3.298	0.278	0.00	0.00
1.016	18.47	0.28	0.129	0.004	-0.649	0.164	3.833	0.972	0.00	0.00
1.524	19.55	0.26	0.116	0.008	-1.165	0.260	6.575	1.563	0.00	0.00
2.032	20.51	0.17	0.102	0.009	-1.419	0.423	6.740	2.547	0.00	0.00
2.540	21.38	0.26	0.078	0.008	-1.654	0.299	7.424	2.170	0.00	0.00
3.810	22.46	0.39	0.039	0.006	-1.196	0.733	7.477	1.954	0.00	0.00
5.080	22.86	0.28	0.024	0.002	-0.040	0.199	3.637	0.528	0.00	0.00
6.350	22.97	0.35	0.023	0.002	0.032	0.230	3.340	0.332	0.00	0.00
7.620	23.08	0.23	0.022	0.003	0.086	0.370	4.036	0.677	0.00	0.00
8.890	23.20	0.30	0.021	0.003	0.174	0.224	3.689	0.371	0.00	0.00
10.160	23.30	0.30	0.022	0.003	0.201	0.127	3.453	0.158	0.00	0.00
11.430	23.41	0.27	0.022	0.001	0.096	0.351	3.512	0.215	0.00	0.00
12.700	23.50	0.33	0.021	0.002	0.348	0.343	3.885	1.474	0.00	0.00
13.970	23.57	0.32	0.022	0.003	0.040	0.245	3.314	0.414	0.00	0.00
15.240	23.70	0.31	0.022	0.003	0.220	0.334	3.429	0.989	0.00	0.00
16.510	23.83	0.30	0.021	0.002	0.088	0.151	3.167	0.328	0.00	0.00
17.780	23.92	0.27	0.021	0.001	0.249	0.537	4.702	2.571	0.00	0.00
19.050	24.00	0.31	0.021	0.002	0.173	0.280	3.531	0.552	0.00	0.00
20.320	24.13	0.35	0.021	0.003	0.021	0.315	4.223	0.945	0.00	0.00
21.590	24.24	0.33	0.021	0.002	0.066	0.234	3.674	0.334	0.00	0.00
22.860	24.34	0.26	0.021	0.002	0.240	0.203	3.669	0.805	0.00	0.00
24.130	24.43	0.29	0.021	0.002	0.188	0.333	3.198	0.355	0.00	0.00
25.400	24.54	0.27	0.022	0.001	0.042	0.250	3.432	0.259	0.00	0.00

Table 39. Boundary Layer Measurements at 89.7% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	14.68	0.51	0.255	0.016	0.017	0.105	2.285	0.137	0.00	0.00
0.381	16.59	0.26	0.205	0.010	-0.363	0.064	2.833	0.184	0.00	0.00
0.508	17.58	0.17	0.181	0.013	-0.576	0.094	3.260	0.263	0.00	0.00
0.762	18.93	0.20	0.146	0.013	-1.041	0.228	5.125	1.144	0.00	0.00
1.016	19.77	0.13	0.119	0.012	-0.768	0.301	4.283	1.141	0.00	0.00
1.524	20.92	0.22	0.100	0.012	-0.960	0.372	4.706	1.608	0.00	0.00
2.032	21.63	0.09	0.094	0.013	-1.408	0.519	6.855	2.388	0.00	0.00
2.540	22.36	0.08	0.080	0.012	-1.460	0.627	6.346	3.148	0.00	0.00
3.810	23.54	0.09	0.044	0.002	-1.735	0.559	8.996	3.417	0.00	0.00
5.080	23.98	0.06	0.027	0.002	-0.517	0.609	5.544	2.508	0.00	0.00
6.350	24.19	0.08	0.025	0.002	-0.009	0.185	3.553	0.447	0.00	0.00
7.620	24.25	0.09	0.024	0.002	0.024	0.152	3.380	0.495	0.00	0.00
8.890	24.36	0.07	0.024	0.002	-0.050	0.137	3.017	0.196	0.00	0.00
10.160	24.44	0.07	0.023	0.001	0.140	0.250	3.206	0.505	0.00	0.00
11.430	24.56	0.05	0.023	0.002	-0.071	0.176	3.457	0.367	0.00	0.00
12.700	24.59	0.08	0.022	0.002	-0.159	0.198	3.533	0.813	0.00	0.00
13.970	24.66	0.10	0.022	0.001	-0.109	0.272	3.337	0.434	0.00	0.00
15.240	24.75	0.07	0.022	0.002	-0.015	0.271	3.379	0.882	0.00	0.00
16.510	24.81	0.08	0.023	0.002	-0.021	0.437	3.704	0.737	0.00	0.00
17.780	24.90	0.07	0.022	0.002	-0.082	0.315	3.783	1.292	0.00	0.00
19.050	24.97	0.08	0.023	0.002	0.093	0.222	3.400	0.209	0.00	0.00
20.320	25.02	0.09	0.021	0.002	0.121	0.263	3.745	0.633	0.00	0.00
21.590	25.12	0.07	0.022	0.001	-0.129	0.313	3.829	0.734	0.00	0.00
22.860	25.14	0.06	0.022	0.002	-0.113	0.256	3.816	0.783	0.00	0.00
24.130	25.21	0.08	0.022	0.002	0.073	0.314	3.326	0.507	0.00	0.00
25.400	25.26	0.11	0.022	0.001	0.030	0.159	3.312	0.669	0.00	0.00

Table 40. Boundary Layer Measurements at 98.4% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	20.20	0.72	0.176	0.018	-0.528	0.214	3.060	0.685	0.00	0.00
0.381	21.67	0.44	0.141	0.012	-0.807	0.170	3.902	0.711	0.00	0.00
0.508	22.47	0.43	0.119	0.013	-0.660	0.222	3.284	0.851	0.00	0.00
1.016	24.06	0.30	0.082	0.006	-0.801	0.190	4.235	0.905	0.00	0.00
1.524	24.90	0.35	0.072	0.009	-1.064	0.390	5.376	1.992	0.00	0.00
2.540	25.97	0.17	0.050	0.003	-0.768	0.248	3.771	0.846	0.00	0.00
3.810	26.56	0.23	0.034	0.004	-0.958	0.414	5.283	1.998	0.00	0.00
5.080	26.72	0.19	0.025	0.003	-0.325	0.246	3.854	0.830	0.00	0.00
6.350	26.65	0.14	0.024	0.002	0.010	0.605	4.793	2.885	0.00	0.00
7.620	26.59	0.16	0.023	0.001	0.042	0.281	3.370	0.717	0.00	0.00
8.890	26.51	0.18	0.022	0.001	-0.137	0.394	3.441	0.915	0.00	0.00
10.160	26.42	0.12	0.022	0.001	0.059	0.221	3.186	0.370	0.00	0.00
11.430	26.41	0.19	0.022	0.001	0.052	0.127	3.253	0.315	0.00	0.00
12.700	26.34	0.15	0.021	0.002	-0.148	0.239	3.561	0.637	0.00	0.00
13.970	26.26	0.12	0.021	0.002	0.056	0.271	3.222	0.486	0.00	0.00
15.240	26.30	0.13	0.021	0.002	0.023	0.343	3.658	0.609	0.00	0.00
16.510	26.28	0.15	0.021	0.001	0.138	0.275	3.604	0.467	0.00	0.00
17.780	26.23	0.13	0.021	0.001	0.071	0.212	3.716	0.569	0.00	0.00
19.050	26.23	0.17	0.022	0.002	-0.003	0.306	3.603	0.473	0.00	0.00
20.320	26.18	0.15	0.021	0.002	-0.054	0.376	3.836	1.150	0.00	0.00
21.590	26.21	0.10	0.022	0.002	-0.005	0.183	3.706	0.322	0.00	0.00
22.860	26.17	0.15	0.021	0.001	-0.060	0.308	3.526	0.401	0.00	0.00
24.130	26.18	0.15	0.022	0.002	-0.275	0.309	4.238	1.281	0.00	0.00
25.400	26.18	0.11	0.020	0.002	-0.017	0.248	4.052	0.476	0.00	0.00

Table 41. Boundary Layer Measurements at 7.3% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	28.31	1.80	0.221	0.034	-0.534	0.088	2.884	0.347	0.00	0.00
0.508	32.29	0.96	0.173	0.018	-0.940	0.199	3.940	0.488	0.00	0.00
0.762	34.93	1.17	0.143	0.029	-1.325	0.134	5.505	0.590	0.00	0.00
1.016	37.54	0.62	0.109	0.014	-1.424	0.206	5.319	0.767	0.00	0.00
1.270	39.34	0.51	0.081	0.015	-1.864	0.326	8.181	2.190	0.00	0.00
1.524	40.65	0.23	0.058	0.013	-1.762	0.722	9.245	3.439	0.00	0.00
2.032	41.81	0.06	0.038	0.007	-1.707	0.797	10.490	3.652	0.00	0.00
2.540	42.14	0.10	0.023	0.001	-0.066	0.664	4.437	1.913	0.00	0.00
3.810	42.11	0.14	0.019	0.002	0.598	0.398	4.404	0.633	0.00	0.00
5.080	41.78	0.10	0.017	0.002	0.052	0.325	4.084	0.989	0.00	0.00
6.350	41.51	0.12	0.019	0.001	-0.224	0.458	3.459	0.877	0.00	0.00
7.620	41.26	0.12	0.020	0.001	0.056	0.431	3.291	0.531	0.00	0.00
8.890	40.98	0.11	0.020	0.000	0.207	0.215	3.008	0.417	0.00	0.00
10.160	40.68	0.06	0.018	0.001	0.383	0.319	4.622	1.122	0.00	0.00
11.430	40.41	0.15	0.018	0.002	0.433	0.486	4.371	0.495	0.00	0.00
12.700	40.15	0.10	0.018	0.003	0.052	0.725	5.807	1.385	0.00	0.00

Table 42. Boundary Layer Measurements at 9.4% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	29.78	0.59	0.191	0.008	-0.582	0.105	2.810	0.159	0.00	0.00
0.381	32.49	0.22	0.149	0.008	-0.751	0.103	3.411	0.314	0.00	0.00
0.508	33.96	0.49	0.129	0.012	-0.818	0.166	3.670	0.551	0.00	0.00
0.635	35.25	0.46	0.113	0.010	-0.947	0.178	3.966	0.650	0.00	0.00
0.762	36.23	0.47	0.102	0.013	-1.065	0.116	4.435	0.475	0.00	0.00
0.889	37.30	0.27	0.093	0.010	-1.246	0.255	4.960	1.113	0.00	0.00
1.016	38.23	0.25	0.081	0.009	-1.359	0.422	5.673	1.459	0.00	0.00
1.143	38.84	0.29	0.075	0.009	-1.585	0.087	6.537	0.821	0.00	0.00
1.270	39.44	0.45	0.067	0.017	-1.623	0.433	7.031	1.460	0.00	0.00
1.524	40.68	0.35	0.043	0.016	-1.100	1.019	6.511	4.215	0.00	0.00
2.032	41.41	0.10	0.028	0.005	-0.613	0.841	5.719	2.928	0.00	0.00
2.540	41.68	0.08	0.021	0.001	0.261	0.204	3.338	0.511	0.00	0.00
3.810	41.45	0.06	0.019	0.001	-0.090	0.160	3.428	0.557	0.00	0.00
5.080	41.20	0.03	0.021	0.001	0.319	0.125	2.896	0.226	0.00	0.00
6.350	40.95	0.08	0.019	0.000	0.299	0.277	3.275	0.559	0.00	0.00
7.620	40.63	0.07	0.018	0.002	0.828	0.275	4.131	0.280	0.00	0.00
8.890	40.41	0.11	0.017	0.002	0.642	0.311	4.510	1.179	0.00	0.00
10.160	40.21	0.08	0.016	0.002	0.452	0.493	5.202	0.978	0.00	0.00
11.430	40.02	0.09	0.016	0.001	0.325	0.288	4.449	0.809	0.00	0.00
12.700	39.82	0.03	0.017	0.000	0.038	0.241	3.493	0.964	0.00	0.00
13.970	39.65	0.08	0.018	0.001	0.092	0.094	2.970	0.423	0.00	0.00
15.240	39.38	0.10	0.019	0.001	0.134	0.144	2.986	0.300	0.00	0.00
16.510	39.18	0.09	0.018	0.001	0.359	0.111	2.967	0.466	0.00	0.00
17.780	38.94	0.10	0.019	0.001	0.539	0.132	3.563	0.567	0.00	0.00

Table 43. Boundary Layer Measurements at 14.5% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	26.09	1.42	0.237	0.030	-0.343	0.122	2.352	0.179	0.00	0.00
0.381	30.22	0.38	0.160	0.007	-0.599	0.072	3.026	0.278	0.00	0.00
0.508	32.21	0.22	0.125	0.005	-0.622	0.122	3.317	0.274	0.00	0.00
0.635	33.40	0.24	0.114	0.003	-0.633	0.091	3.367	0.275	0.00	0.00
0.762	34.51	0.21	0.103	0.005	-0.683	0.062	3.457	0.287	0.00	0.00
0.889	35.45	0.25	0.095	0.005	-0.765	0.131	3.691	0.456	0.00	0.00
1.016	36.19	0.14	0.090	0.002	-0.832	0.073	3.832	0.170	0.00	0.00
1.143	36.99	0.23	0.082	0.004	-1.040	0.202	4.507	0.899	0.00	0.00
1.270	37.56	0.12	0.078	0.001	-1.077	0.137	4.504	0.560	0.00	0.00
1.524	38.69	0.15	0.067	0.004	-1.475	0.133	6.200	0.926	0.00	0.00
1.778	39.53	0.22	0.054	0.007	-1.464	0.435	6.609	2.236	0.00	0.00
2.032	40.25	0.17	0.043	0.006	-1.991	0.580	10.700	3.494	0.00	0.00
2.286	40.65	0.19	0.035	0.005	-1.633	0.827	10.210	4.209	0.00	0.00
2.540	40.89	0.13	0.025	0.002	-0.011	0.192	3.387	0.388	0.00	0.00
3.810	41.04	0.07	0.020	0.001	0.297	0.163	2.926	0.318	0.00	0.00
5.080	40.80	0.13	0.019	0.001	0.566	0.108	3.530	0.448	0.00	0.00
6.350	40.46	0.07	0.016	0.001	0.533	0.329	4.459	0.746	0.00	0.00
7.620	40.28	0.08	0.017	0.001	0.559	0.577	5.213	1.245	0.00	0.00
8.890	40.07	0.05	0.016	0.001	0.103	0.374	4.427	0.838	0.00	0.00
10.160	39.90	0.04	0.017	0.001	0.168	0.423	4.644	0.901	0.00	0.00
11.430	39.69	0.06	0.017	0.001	-0.066	0.161	3.073	0.601	0.00	0.00
12.700	39.48	0.04	0.019	0.001	0.167	0.222	2.881	0.450	0.00	0.00
13.970	39.21	0.08	0.018	0.001	0.521	0.183	3.410	0.524	0.00	0.00
15.240	39.01	0.07	0.018	0.001	0.485	0.220	3.248	0.315	0.00	0.00
16.510	38.79	0.06	0.017	0.001	0.627	0.093	3.816	0.485	0.00	0.00
17.780	38.61	0.09	0.016	0.002	0.723	0.308	4.493	1.014	0.00	0.00
19.050	38.46	0.05	0.016	0.002	0.526	0.250	4.535	0.742	0.00	0.00
20.320	38.30	0.06	0.015	0.001	0.444	0.499	5.029	2.004	0.00	0.00
21.590	38.11	0.07	0.016	0.001	-0.010	0.503	3.872	0.918	0.00	0.00
22.860	37.99	0.04	0.016	0.001	-0.084	0.253	3.516	0.449	0.00	0.00

Table 44. Boundary Layer Measurements at 19.7% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	22.46	1.45	0.278	0.032	-0.173	0.117	2.319	0.119	0.00	0.00
0.381	27.00	1.04	0.192	0.018	-0.455	0.104	2.810	0.306	0.00	0.00
0.508	29.05	0.67	0.161	0.013	-0.654	0.177	3.562	0.740	0.00	0.00
0.635	30.94	0.33	0.136	0.010	-0.798	0.237	4.319	0.982	0.00	0.00
0.762	32.07	0.42	0.123	0.010	-0.765	0.200	3.842	0.925	0.00	0.00
0.889	33.09	0.44	0.115	0.015	-0.962	0.213	4.924	1.192	0.00	0.00
1.016	33.94	0.53	0.102	0.011	-0.879	0.239	4.425	1.000	0.00	0.00
1.143	34.89	0.31	0.089	0.005	-0.693	0.149	3.701	0.595	0.00	0.00
1.270	35.59	0.40	0.084	0.005	-0.775	0.175	3.635	0.623	0.00	0.00
1.524	36.76	0.34	0.078	0.010	-1.180	0.282	5.145	1.268	0.00	0.00
1.778	37.76	0.38	0.067	0.009	-1.364	0.339	5.736	1.633	0.00	0.00
2.032	38.67	0.18	0.054	0.005	-1.601	0.330	7.072	1.948	0.00	0.00
2.540	39.60	0.26	0.041	0.010	-2.058	0.752	11.120	3.383	0.00	0.00
3.810	40.14	0.06	0.019	0.002	0.294	0.161	4.348	0.387	0.00	0.00
5.080	39.99	0.09	0.018	0.002	0.307	0.210	4.651	0.822	0.00	0.00
6.350	39.73	0.06	0.018	0.001	0.075	0.323	3.313	0.996	0.00	0.00
7.620	39.53	0.11	0.019	0.002	0.116	0.207	2.993	0.364	0.00	0.00
8.890	39.24	0.06	0.019	0.001	0.248	0.159	2.722	0.289	0.00	0.00
10.160	38.94	0.12	0.018	0.001	0.482	0.270	3.365	0.353	0.00	0.00
11.430	38.74	0.07	0.018	0.001	0.526	0.223	3.564	0.469	0.00	0.00
12.700	38.53	0.11	0.017	0.002	0.627	0.411	5.459	2.014	0.00	0.00
13.970	38.30	0.08	0.017	0.001	0.256	0.376	4.386	1.433	0.00	0.00
15.240	38.13	0.05	0.017	0.002	0.004	0.234	4.176	1.003	0.00	0.00
16.510	37.92	0.07	0.018	0.001	0.091	0.267	3.314	0.413	0.00	0.00
17.780	37.79	0.09	0.018	0.000	0.174	0.266	2.905	0.573	0.00	0.00
19.050	37.58	0.14	0.019	0.001	0.292	0.179	3.007	0.380	0.00	0.00
20.320	37.40	0.10	0.019	0.001	0.511	0.190	3.307	1.019	0.00	0.00
21.590	37.26	0.08	0.018	0.001	0.608	0.126	3.071	0.218	0.00	0.00
22.860	36.99	0.12	0.017	0.001	0.788	0.289	4.257	0.770	0.00	0.00
24.130	36.84	0.07	0.016	0.002	0.550	0.381	4.584	1.193	0.00	0.00
25.400	36.68	0.10	0.017	0.001	0.200	0.501	4.646	0.865	0.00	0.00
26.670	36.57	0.07	0.017	0.001	0.491	0.331	4.849	1.704	0.00	0.00
27.940	36.37	0.08	0.017	0.000	0.186	0.320	3.669	0.549	0.00	0.00
29.210	36.26	0.05	0.018	0.001	0.099	0.297	3.592	0.748	0.00	0.00
30.480	36.13	0.10	0.018	0.001	0.169	0.207	2.929	0.452	0.00	0.00
31.750	35.92	0.11	0.019	0.002	0.368	0.152	2.894	0.200	0.00	0.00

Table 45. Boundary Layer Measurements at 30.1% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	16.11	1.54	0.327	0.034	0.222	0.163	2.316	0.101	0.00	0.00
0.381	20.20	0.66	0.241	0.014	-0.113	0.056	2.504	0.068	0.00	0.00
0.508	22.72	0.39	0.194	0.009	-0.255	0.099	2.787	0.286	0.00	0.00
0.635	24.57	0.42	0.169	0.010	-0.328	0.098	2.872	0.252	0.00	0.00
0.762	25.88	0.47	0.152	0.008	-0.356	0.119	2.990	0.329	0.00	0.00
0.889	26.83	0.50	0.144	0.009	-0.415	0.132	3.266	0.508	0.00	0.00
1.016	28.07	0.34	0.131	0.009	-0.439	0.140	3.224	0.385	0.00	0.00
1.143	29.01	0.50	0.124	0.012	-0.555	0.220	3.542	0.667	0.00	0.00
1.270	30.04	0.29	0.113	0.007	-0.509	0.120	3.371	0.558	0.00	0.00
1.524	31.44	0.15	0.103	0.010	-0.669	0.308	3.795	1.044	0.00	0.00
1.778	32.80	0.21	0.088	0.008	-0.667	0.245	3.479	0.870	0.00	0.00
2.032	33.91	0.17	0.080	0.004	-0.898	0.210	4.102	0.808	0.00	0.00
2.286	34.86	0.32	0.068	0.005	-0.768	0.228	3.564	0.902	0.00	0.00
2.794	36.36	0.23	0.053	0.004	-1.452	0.369	6.225	1.866	0.00	0.00
3.302	37.13	0.12	0.040	0.005	-1.801	0.567	9.103	3.916	0.00	0.00
3.810	37.65	0.13	0.024	0.003	-0.494	1.019	5.509	5.145	0.00	0.00
5.080	37.63	0.11	0.019	0.001	0.103	0.179	3.043	0.802	0.00	0.00
6.350	37.45	0.06	0.018	0.001	0.399	0.209	2.957	0.681	0.00	0.00
7.620	37.16	0.09	0.018	0.001	0.571	0.252	3.159	0.389	0.00	0.00
8.890	36.97	0.05	0.018	0.001	0.519	0.251	4.239	0.688	0.00	0.00
10.160	36.73	0.02	0.017	0.002	0.508	0.304	4.902	0.612	0.00	0.00
11.430	36.52	0.03	0.017	0.001	0.296	0.247	3.880	0.437	0.00	0.00
12.700	36.29	0.05	0.019	0.001	0.068	0.231	3.503	0.411	0.00	0.00
13.970	36.03	0.03	0.020	0.001	0.054	0.348	3.064	0.619	0.00	0.00
15.240	35.87	0.06	0.019	0.001	0.299	0.197	2.777	0.470	0.00	0.00
16.510	35.63	0.04	0.019	0.001	0.474	0.233	3.550	0.528	0.00	0.00
17.780	35.46	0.07	0.019	0.001	0.870	0.539	5.207	2.699	0.00	0.00
19.050	35.13	0.09	0.018	0.001	0.409	0.360	4.456	1.034	0.00	0.00
20.320	34.95	0.10	0.018	0.002	0.229	0.256	3.948	0.850	0.00	0.00
21.590	34.70	0.09	0.018	0.001	0.117	0.130	2.971	0.475	0.00	0.00
22.860	34.59	0.06	0.019	0.002	0.043	0.169	2.878	0.378	0.00	0.00
24.130	34.34	0.08	0.019	0.001	0.303	0.225	2.813	0.483	0.00	0.00
25.400	34.15	0.07	0.019	0.001	0.486	0.217	3.042	0.302	0.00	0.00
26.670	33.95	0.10	0.019	0.001	0.531	0.244	3.730	0.472	0.00	0.00
27.940	33.73	0.10	0.018	0.001	0.501	0.319	4.333	0.563	0.00	0.00
29.210	33.58	0.08	0.019	0.002	0.548	0.266	4.760	1.306	0.00	0.00
30.480	33.35	0.06	0.019	0.002	0.245	0.319	4.252	0.747	0.00	0.00
31.750	33.16	0.13	0.019	0.002	0.062	0.255	3.529	0.989	0.00	0.00

Table 46. Boundary Layer Measurements at 40.5% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	10.17	2.51	0.428	0.097	0.546	0.145	2.987	0.469	0.18	0.34
0.381	15.13	1.60	0.285	0.041	0.099	0.095	2.492	0.146	0.02	0.04
0.508	17.37	0.94	0.231	0.015	0.010	0.050	2.590	0.086	0.00	0.00
0.635	19.16	0.92	0.196	0.014	-0.059	0.055	2.766	0.119	0.00	0.00
0.762	20.27	0.95	0.180	0.010	-0.057	0.080	2.798	0.167	0.00	0.00
0.889	21.41	1.17	0.167	0.012	-0.076	0.076	2.755	0.127	0.00	0.00
1.016	22.42	1.03	0.160	0.009	-0.127	0.057	3.016	0.337	0.00	0.00
1.143	23.46	1.03	0.148	0.007	-0.173	0.111	2.844	0.171	0.00	0.00
1.270	24.32	1.23	0.141	0.010	-0.218	0.088	2.779	0.194	0.00	0.00
1.524	26.09	1.13	0.125	0.011	-0.311	0.097	3.022	0.237	0.00	0.00
1.778	27.48	1.29	0.113	0.011	-0.334	0.051	2.840	0.138	0.00	0.00
2.032	28.95	1.41	0.104	0.014	-0.421	0.124	2.959	0.170	0.00	0.00
2.286	30.21	1.50	0.093	0.012	-0.568	0.392	3.489	1.138	0.00	0.00
2.540	31.38	1.38	0.080	0.012	-0.832	0.405	4.308	1.596	0.00	0.00
2.794	32.46	1.32	0.071	0.016	-0.890	0.390	3.985	1.456	0.00	0.00
3.048	33.17	1.23	0.063	0.019	-1.177	0.364	5.974	3.408	0.00	0.00
3.556	34.39	0.78	0.045	0.015	-1.592	0.653	8.865	6.897	0.00	0.00
4.064	35.00	0.47	0.034	0.012	-1.311	1.198	8.988	5.730	0.00	0.00
4.572	35.26	0.32	0.025	0.007	-0.496	1.107	5.578	2.966	0.00	0.00
5.080	35.30	0.20	0.019	0.002	0.146	0.325	4.224	1.037	0.00	0.00
6.350	35.19	0.15	0.017	0.001	0.483	0.333	4.328	0.689	0.00	0.00
7.620	35.00	0.12	0.017	0.001	0.164	0.383	3.871	0.983	0.00	0.00
8.890	34.81	0.10	0.018	0.001	0.172	0.325	3.585	0.581	0.00	0.00
10.160	34.66	0.06	0.018	0.001	-0.043	0.210	3.036	0.361	0.00	0.00
11.430	34.39	0.15	0.019	0.000	0.409	0.300	2.749	0.251	0.00	0.00
12.700	34.16	0.14	0.018	0.001	0.464	0.152	3.101	0.452	0.00	0.00
13.970	33.93	0.15	0.018	0.001	0.664	0.188	3.740	0.273	0.00	0.00
15.240	33.71	0.12	0.019	0.001	0.602	0.465	4.594	0.847	0.00	0.00
16.510	33.51	0.14	0.016	0.001	0.305	0.339	4.359	1.558	0.00	0.00
17.780	33.33	0.12	0.018	0.001	0.203	0.169	3.734	0.415	0.00	0.00
19.050	33.07	0.12	0.019	0.001	0.388	0.311	3.671	0.756	0.00	0.00
20.320	32.92	0.08	0.019	0.001	0.468	0.168	3.239	0.773	0.00	0.00
21.590	32.69	0.18	0.020	0.002	0.700	0.179	3.833	1.053	0.00	0.00
22.860	32.48	0.21	0.018	0.002	0.503	0.317	3.732	0.874	0.00	0.00
24.130	32.33	0.19	0.018	0.002	0.502	0.239	4.022	0.809	0.00	0.00
25.400	32.15	0.15	0.019	0.002	0.475	0.341	4.554	1.009	0.00	0.00
26.670	31.92	0.18	0.018	0.001	0.294	0.240	3.430	0.986	0.00	0.00
27.940	31.68	0.19	0.019	0.001	0.344	0.254	3.221	0.282	0.00	0.00
29.210	31.46	0.15	0.019	0.000	0.439	0.174	3.371	0.468	0.00	0.00

Table 46. (Continued)

30.480	31.31	0.19	0.019	0.003	0.723	0.260	3.688	0.617	0.00	0.00
31.750	31.12	0.18	0.018	0.002	0.618	0.385	4.298	1.284	0.00	0.00

Table 47. Boundary Layer Measurements at 49.8% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	7.49	1.21	0.509	0.090	0.595	0.156	3.292	0.294	1.43	1.73
0.381	11.36	0.59	0.343	0.010	0.266	0.192	2.613	0.155	0.10	0.13
0.508	13.61	0.43	0.283	0.017	0.033	0.134	2.655	0.158	0.00	0.00
0.635	15.47	0.40	0.232	0.009	-0.082	0.067	2.739	0.089	0.00	0.00
0.762	16.49	0.40	0.209	0.005	-0.141	0.086	3.114	0.244	0.00	0.00
0.889	17.42	0.45	0.204	0.012	-0.235	0.096	3.154	0.163	0.00	0.00
1.016	18.29	0.44	0.190	0.012	-0.150	0.136	3.188	0.184	0.00	0.00
1.143	19.04	0.36	0.182	0.006	-0.205	0.111	3.310	0.204	0.00	0.00
1.270	20.03	0.47	0.173	0.012	-0.238	0.279	3.276	0.623	0.00	0.00
1.524	21.31	0.35	0.166	0.013	-0.301	0.264	3.407	0.570	0.00	0.00
1.778	22.80	0.58	0.152	0.015	-0.413	0.264	3.461	0.692	0.00	0.00
2.032	24.23	0.61	0.144	0.017	-0.620	0.264	4.062	1.060	0.00	0.00
2.286	25.40	0.75	0.139	0.017	-0.785	0.225	4.406	0.860	0.00	0.00
2.540	26.71	0.61	0.120	0.011	-0.771	0.197	4.449	0.800	0.00	0.00
2.794	27.92	0.58	0.115	0.015	-1.066	0.355	5.479	1.613	0.00	0.00
3.048	29.19	0.45	0.095	0.011	-1.005	0.394	5.152	2.077	0.00	0.00
3.556	31.05	0.66	0.078	0.016	-1.447	0.332	6.731	1.450	0.00	0.00
4.064	32.56	0.35	0.057	0.016	-1.963	0.920	9.908	5.353	0.00	0.00
4.572	33.37	0.20	0.038	0.009	-2.142	1.047	13.500	6.911	0.00	0.00
5.080	33.68	0.15	0.025	0.007	-0.338	1.083	5.400	4.291	0.00	0.00
6.350	33.58	0.15	0.023	0.008	-0.502	1.789	7.520	9.627	0.00	0.00
7.620	33.35	0.12	0.022	0.008	-0.366	1.439	6.624	7.481	0.00	0.00
8.890	33.20	0.12	0.019	0.001	0.070	0.304	3.013	0.733	0.00	0.00
10.160	33.01	0.08	0.020	0.001	-0.173	0.990	5.494	6.278	0.00	0.00
11.430	32.71	0.10	0.021	0.002	-0.340	1.228	6.979	6.211	0.00	0.00
12.700	32.54	0.10	0.020	0.001	0.064	1.083	6.102	7.244	0.00	0.00
13.970	32.33	0.03	0.019	0.002	0.131	0.838	5.711	4.286	0.00	0.00
15.240	32.11	0.06	0.018	0.002	0.358	0.184	4.079	0.677	0.00	0.00
16.510	31.99	0.07	0.018	0.001	0.076	0.309	3.920	0.472	0.00	0.00
17.780	31.73	0.06	0.019	0.001	0.242	0.252	3.122	0.767	0.00	0.00
19.050	31.60	0.10	0.019	0.001	0.309	0.165	2.938	0.452	0.00	0.00
20.320	31.37	0.09	0.020	0.001	0.369	0.252	3.245	0.361	0.00	0.00
21.590	31.17	0.07	0.019	0.002	0.565	0.147	3.432	0.526	0.00	0.00
22.860	30.97	0.12	0.018	0.001	0.558	0.378	4.364	1.151	0.00	0.00
24.130	30.79	0.09	0.017	0.001	0.346	0.331	4.253	1.233	0.00	0.00
25.400	30.60	0.07	0.017	0.002	0.048	0.273	4.227	0.663	0.00	0.00
26.670	30.47	0.05	0.019	0.002	-0.044	0.311	3.278	1.054	0.00	0.00
27.940	30.21	0.07	0.018	0.001	0.274	0.236	3.074	0.317	0.00	0.00
29.210	30.07	0.11	0.019	0.001	0.214	0.181	2.787	0.823	0.00	0.00

Table 47. (Continued)

30.480	29.84	0.08	0.019	0.001	0.597	0.268	3.829	0.522	0.00	0.00
31.750	29.71	0.14	0.019	0.002	0.322	0.333	3.642	0.315	0.00	0.00

Table 48. Boundary Layer Measurements at 60.2% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	6.43	0.42	0.458	0.012	0.445	0.067	3.011	0.230	0.23	0.16
0.381	7.80	0.17	0.386	0.011	0.247	0.073	2.789	0.300	0.10	0.07
0.508	8.66	0.42	0.348	0.015	0.196	0.060	2.847	0.151	0.03	0.05
0.635	9.28	0.28	0.322	0.017	0.190	0.054	2.938	0.125	0.02	0.04
0.762	9.90	0.17	0.307	0.011	0.209	0.071	2.965	0.102	0.02	0.04
0.889	10.52	0.30	0.299	0.009	0.169	0.059	2.944	0.097	0.00	0.00
1.016	11.19	0.26	0.279	0.007	0.225	0.083	2.943	0.347	0.00	0.00
1.143	11.58	0.21	0.273	0.008	0.082	0.054	2.785	0.099	0.00	0.00
1.270	12.20	0.15	0.264	0.009	0.113	0.025	2.824	0.184	0.00	0.00
1.524	13.13	0.30	0.251	0.007	0.096	0.124	2.876	0.137	0.00	0.00
1.778	14.00	0.25	0.243	0.012	-0.005	0.121	2.898	0.151	0.00	0.00
2.032	15.04	0.34	0.228	0.010	0.076	0.062	2.892	0.153	0.00	0.00
2.286	16.18	0.27	0.217	0.005	-0.050	0.065	2.861	0.118	0.00	0.00
2.540	17.04	0.25	0.208	0.006	-0.090	0.100	2.872	0.148	0.00	0.00
2.794	18.01	0.37	0.198	0.006	-0.152	0.058	2.904	0.140	0.00	0.00
3.048	19.05	0.26	0.187	0.009	-0.212	0.091	3.064	0.192	0.00	0.00
3.302	20.06	0.30	0.174	0.008	-0.187	0.043	2.898	0.177	0.00	0.00
3.556	21.01	0.50	0.171	0.008	-0.319	0.107	3.103	0.211	0.00	0.00
3.810	21.94	0.27	0.163	0.004	-0.385	0.080	3.017	0.192	0.00	0.00
4.064	22.91	0.53	0.150	0.005	-0.446	0.147	3.185	0.340	0.00	0.00
4.318	23.97	0.38	0.137	0.004	-0.457	0.104	3.272	0.324	0.00	0.00
4.572	24.89	0.45	0.128	0.007	-0.458	0.122	3.176	0.344	0.00	0.00
4.826	25.70	0.28	0.122	0.003	-0.634	0.153	3.488	0.619	0.00	0.00
5.080	26.71	0.37	0.108	0.007	-0.634	0.275	3.380	0.796	0.00	0.00
5.588	28.06	0.61	0.094	0.009	-0.901	0.075	3.686	0.324	0.00	0.00
6.096	29.33	0.35	0.074	0.007	-1.339	0.387	5.507	2.088	0.00	0.00
6.604	30.10	0.28	0.056	0.011	-1.615	0.422	6.960	2.250	0.00	0.00
7.112	30.49	0.15	0.043	0.007	-1.814	0.241	8.919	1.195	0.00	0.00
7.620	30.83	0.11	0.028	0.004	-0.803	0.896	6.032	3.478	0.00	0.00
8.128	30.81	0.09	0.025	0.006	-0.699	1.014	6.100	3.227	0.00	0.00
8.890	30.88	0.12	0.021	0.001	-0.064	0.293	3.916	0.864	0.00	0.00
10.160	30.75	0.09	0.019	0.002	-0.010	0.314	4.426	1.255	0.00	0.00
11.430	30.60	0.05	0.019	0.002	0.123	0.240	3.965	0.754	0.00	0.00
12.700	30.45	0.06	0.019	0.002	0.026	0.165	3.381	1.014	0.00	0.00
13.970	30.32	0.08	0.019	0.002	-0.045	0.218	2.618	0.264	0.00	0.00
15.240	30.16	0.09	0.019	0.001	0.235	0.221	3.004	0.270	0.00	0.00
16.510	29.97	0.13	0.020	0.001	0.463	0.268	3.467	0.884	0.00	0.00
17.780	29.77	0.13	0.019	0.002	0.428	0.296	4.186	1.262	0.00	0.00
19.050	29.66	0.07	0.018	0.002	0.275	0.164	4.262	0.676	0.00	0.00

Table 48. (Continued)

20.320	29.54	0.09	0.018	0.001	0.306	0.253	3.943	0.397	0.00	0.00
21.590	29.37	0.06	0.019	0.002	0.171	0.204	3.487	0.329	0.00	0.00
22.860	29.24	0.06	0.018	0.001	-0.045	0.340	3.289	0.718	0.00	0.00
24.130	29.05	0.09	0.019	0.001	0.104	0.287	3.143	0.598	0.00	0.00
25.400	28.92	0.09	0.020	0.001	0.101	0.281	2.910	0.424	0.00	0.00
26.670	28.73	0.11	0.019	0.001	0.384	0.227	3.256	0.617	0.00	0.00
27.940	28.60	0.09	0.019	0.002	0.496	0.196	3.409	0.206	0.00	0.00
29.210	28.46	0.08	0.018	0.002	0.317	0.187	3.978	0.886	0.00	0.00
30.480	28.29	0.09	0.019	0.001	0.280	0.196	3.891	0.543	0.00	0.00
31.750	28.18	0.05	0.018	0.001	-0.094	0.230	4.054	0.685	0.00	0.00

Table 49. Boundary Layer Measurements at 70.6% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	2.32	0.29	1.005	0.091	0.424	0.129	3.363	0.224	14.95	2.45
0.381	3.18	0.10	0.833	0.039	0.133	0.133	3.143	0.185	11.00	1.01
0.508	3.76	0.17	0.735	0.048	0.043	0.096	3.012	0.091	8.63	1.43
0.635	4.19	0.12	0.685	0.030	-0.019	0.122	3.114	0.187	7.12	1.07
0.762	4.41	0.18	0.670	0.039	0.001	0.029	3.210	0.135	6.82	1.58
0.889	4.85	0.18	0.634	0.022	-0.052	0.097	3.088	0.105	6.27	1.16
1.016	5.08	0.15	0.615	0.022	-0.039	0.138	3.090	0.184	5.20	0.89
1.143	5.37	0.10	0.590	0.022	-0.052	0.156	3.231	0.146	4.60	0.32
1.270	5.85	0.35	0.533	0.043	-0.059	0.092	3.111	0.111	3.37	0.94
1.524	6.36	0.29	0.520	0.035	-0.088	0.091	3.135	0.084	3.07	0.83
1.778	6.89	0.17	0.492	0.024	-0.073	0.108	3.151	0.169	2.38	0.38
2.032	7.49	0.28	0.467	0.037	-0.064	0.121	3.242	0.225	2.03	0.82
2.286	8.24	0.16	0.434	0.012	-0.093	0.117	3.069	0.120	1.17	0.35
2.540	8.98	0.35	0.400	0.021	-0.066	0.113	2.960	0.141	0.90	0.51
2.794	9.57	0.48	0.392	0.028	-0.068	0.125	3.068	0.110	0.85	0.36
3.048	10.30	0.26	0.364	0.021	-0.088	0.110	3.020	0.139	0.43	0.44
3.302	11.08	0.42	0.347	0.013	-0.081	0.066	2.940	0.159	0.27	0.11
3.556	11.70	0.27	0.332	0.016	-0.161	0.114	2.909	0.077	0.20	0.16
3.810	12.47	0.51	0.323	0.025	-0.168	0.110	3.074	0.214	0.28	0.22
4.064	13.14	0.40	0.306	0.017	-0.147	0.113	2.955	0.187	0.12	0.17
4.318	14.07	0.24	0.289	0.016	-0.181	0.090	2.856	0.169	0.03	0.05
4.572	14.92	0.47	0.269	0.021	-0.289	0.093	3.028	0.176	0.03	0.05
4.826	15.53	0.36	0.263	0.011	-0.312	0.119	3.162	0.265	0.00	0.00
5.080	16.63	0.61	0.248	0.013	-0.299	0.079	2.986	0.077	0.00	0.00
5.334	17.47	0.34	0.235	0.008	-0.401	0.113	3.165	0.190	0.00	0.00
5.588	18.30	0.36	0.228	0.011	-0.427	0.103	3.202	0.254	0.00	0.00
5.842	19.39	0.66	0.206	0.017	-0.415	0.117	3.174	0.258	0.00	0.00
6.096	20.10	0.47	0.201	0.010	-0.555	0.149	3.370	0.275	0.00	0.00
6.350	21.04	0.44	0.185	0.009	-0.606	0.055	3.574	0.298	0.00	0.00
6.604	21.89	0.40	0.173	0.006	-0.632	0.153	3.421	0.468	0.00	0.00
6.858	22.60	0.46	0.169	0.011	-0.693	0.140	3.650	0.502	0.00	0.00
7.112	23.69	0.55	0.151	0.012	-0.813	0.105	3.762	0.252	0.00	0.00
7.366	24.43	0.43	0.137	0.011	-0.849	0.149	3.942	0.356	0.00	0.00
7.620	25.22	0.43	0.127	0.009	-1.091	0.130	4.674	0.746	0.00	0.00
8.128	26.34	0.29	0.111	0.010	-1.293	0.281	5.322	1.687	0.00	0.00
8.636	27.41	0.43	0.083	0.009	-1.534	0.253	6.129	1.244	0.00	0.00
9.144	28.05	0.24	0.065	0.007	-1.795	0.269	7.527	2.221	0.00	0.00
9.652	28.59	0.18	0.048	0.008	-1.931	0.225	8.726	1.011	0.00	0.00
10.160	28.79	0.17	0.038	0.006	-1.749	0.355	8.438	1.911	0.00	0.00

Table 49. (Continued)

11.430	28.95	0.15	0.022	0.003	-0.712	0.532	5.129	1.529	0.00	0.00
12.700	28.93	0.12	0.020	0.001	-0.057	0.291	3.507	0.833	0.00	0.00
13.970	28.87	0.12	0.018	0.000	0.213	0.233	2.805	0.564	0.00	0.00
15.240	28.80	0.06	0.018	0.001	0.615	0.243	3.434	0.583	0.00	0.00
16.510	28.64	0.12	0.017	0.001	0.576	0.192	3.591	0.633	0.00	0.00
17.780	28.52	0.07	0.018	0.001	0.582	0.171	3.740	0.626	0.00	0.00
19.050	28.41	0.09	0.017	0.001	0.461	0.361	4.627	0.669	0.00	0.00
20.320	28.34	0.10	0.016	0.001	0.407	0.175	4.389	0.701	0.00	0.00
21.590	28.20	0.12	0.017	0.001	0.190	0.177	3.611	0.437	0.00	0.00
22.860	28.11	0.07	0.016	0.001	0.056	0.098	3.426	0.512	0.00	0.00
24.130	28.00	0.06	0.017	0.001	0.029	0.305	3.067	0.629	0.00	0.00
25.400	27.85	0.06	0.018	0.002	0.198	0.266	2.908	0.357	0.00	0.00
26.670	27.74	0.04	0.018	0.001	0.257	0.393	2.907	0.412	0.00	0.00
27.940	27.62	0.09	0.018	0.001	0.282	0.224	2.791	0.296	0.00	0.00
29.210	27.57	0.05	0.018	0.002	0.465	0.193	3.297	0.322	0.00	0.00
30.480	27.42	0.08	0.016	0.001	0.527	0.220	3.729	1.058	0.00	0.00
31.750	27.30	0.09	0.016	0.001	0.433	0.167	4.086	0.321	0.00	0.00

Table 50. Boundary Layer Measurements at 80.0% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	0.30	0.11	7.626	4.866	1.842	1.371	19.330	19.830	46.00	3.44
0.508	0.54	0.04	4.339	0.373	0.759	0.406	7.311	4.365	42.65	0.60
0.762	0.72	0.09	3.764	0.584	0.496	0.247	4.441	1.857	41.43	1.75
1.016	0.93	0.16	3.058	0.500	0.232	0.133	3.068	0.372	38.63	3.13
1.270	1.35	0.20	2.199	0.296	0.193	0.159	3.146	0.740	33.90	2.91
1.524	1.58	0.18	1.976	0.184	0.132	0.084	2.877	0.456	31.40	2.36
1.778	2.01	0.17	1.587	0.156	0.141	0.385	3.813	2.681	26.40	2.24
2.032	2.30	0.30	1.457	0.192	0.156	0.445	3.708	2.320	24.68	3.72
2.286	2.79	0.39	1.217	0.180	-0.035	0.141	3.065	0.703	20.68	3.53
2.540	3.22	0.25	1.060	0.121	-0.039	0.096	3.177	0.567	17.30	3.17
2.794	3.44	0.23	1.054	0.100	-0.100	0.146	3.165	0.781	16.98	2.78
3.048	3.79	0.20	0.940	0.077	-0.132	0.054	2.927	0.221	15.00	2.51
3.302	4.26	0.32	0.869	0.091	-0.126	0.084	2.925	0.204	12.83	2.84
3.556	4.90	0.22	0.743	0.050	-0.135	0.069	3.079	0.105	9.22	1.53
3.810	5.38	0.29	0.688	0.051	-0.149	0.102	3.180	0.154	8.05	1.64
4.064	5.70	0.19	0.662	0.024	-0.172	0.119	3.162	0.152	7.27	0.96
4.318	6.18	0.23	0.612	0.035	-0.146	0.084	3.210	0.149	5.75	1.13
4.572	6.62	0.34	0.581	0.041	-0.065	0.048	3.124	0.138	4.80	1.21
4.826	7.16	0.13	0.539	0.024	-0.153	0.073	3.253	0.157	3.83	0.97
5.080	7.71	0.34	0.519	0.040	-0.190	0.059	3.139	0.171	3.32	0.90
5.588	8.37	0.45	0.508	0.033	-0.163	0.142	3.218	0.187	3.28	1.10
6.096	9.68	0.45	0.449	0.026	-0.121	0.063	3.023	0.276	1.57	0.63
6.604	11.02	0.44	0.411	0.029	-0.230	0.100	3.051	0.136	1.48	0.80
7.112	12.17	0.44	0.386	0.023	-0.236	0.093	3.013	0.167	0.93	0.36
7.620	13.47	0.58	0.356	0.028	-0.275	0.061	2.821	0.127	0.33	0.14
8.128	14.78	0.43	0.333	0.016	-0.385	0.086	3.026	0.305	0.42	0.30
8.636	16.22	0.39	0.309	0.027	-0.506	0.078	3.133	0.237	0.32	0.33
9.144	17.75	0.50	0.278	0.013	-0.600	0.057	3.277	0.194	0.15	0.14
9.652	19.21	0.38	0.254	0.016	-0.693	0.062	3.320	0.154	0.00	0.00
10.160	20.91	0.57	0.229	0.012	-0.963	0.110	3.968	0.357	0.03	0.05
10.670	22.17	0.43	0.207	0.013	-1.121	0.178	4.322	0.583	0.02	0.04
11.180	23.61	0.24	0.177	0.013	-1.422	0.116	5.597	0.560	0.03	0.05
11.680	24.98	0.35	0.144	0.014	-1.653	0.182	6.570	0.982	0.00	0.00
12.190	25.88	0.34	0.123	0.014	-1.964	0.277	7.906	1.795	0.00	0.00
12.700	26.77	0.26	0.087	0.010	-2.255	0.302	10.050	2.160	0.00	0.00
13.210	27.32	0.21	0.067	0.010	-2.549	0.203	12.190	1.957	0.00	0.00
13.720	27.63	0.09	0.052	0.007	-2.759	0.642	15.150	5.073	0.00	0.00
14.480	27.77	0.15	0.043	0.012	-2.775	0.902	15.990	6.427	0.00	0.00
15.240	27.99	0.06	0.024	0.003	-0.763	0.415	5.497	1.734	0.00	0.00

Table 50. (Continued)

16.510	27.98	0.09	0.021	0.001	0.035	0.216	3.185	0.479	0.00	0.00
17.780	27.89	0.07	0.021	0.001	-0.058	0.375	3.809	0.967	0.00	0.00
19.050	27.82	0.11	0.021	0.002	-0.034	0.396	3.954	1.872	0.00	0.00
20.320	27.74	0.10	0.020	0.001	0.306	0.114	3.207	0.666	0.00	0.00
21.590	27.67	0.03	0.020	0.002	0.208	0.273	3.368	1.712	0.00	0.00
22.860	27.55	0.09	0.020	0.001	0.310	0.275	3.650	0.913	0.00	0.00
24.130	27.47	0.04	0.020	0.001	0.359	0.330	3.417	0.413	0.00	0.00
25.400	27.41	0.07	0.019	0.001	0.361	0.218	3.678	0.468	0.00	0.00
26.670	27.30	0.02	0.019	0.001	0.239	0.366	4.161	0.697	0.00	0.00
27.940	27.24	0.04	0.019	0.001	0.372	0.317	4.164	0.523	0.00	0.00
29.210	27.20	0.05	0.019	0.001	0.198	0.288	3.915	0.874	0.00	0.00
30.480	27.09	0.05	0.018	0.001	0.066	0.101	3.557	0.375	0.00	0.00
31.750	26.98	0.09	0.019	0.002	0.081	0.202	3.633	0.226	0.00	0.00

Table 51. Boundary Layer Measurements at 90.3% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	-0.12	0.33	15.760	31.530	3.493	2.016	31.200	17.500	59.05	0.55
0.508	-0.31	0.65	-3.289	4.548	2.353	1.203	17.860	7.631	61.37	5.26
0.762	-0.79	0.66	-0.499	5.215	1.899	1.328	13.890	11.190	68.55	4.40
1.016	-1.03	0.47	-6.330	10.330	2.080	1.125	15.400	9.313	70.87	3.67
1.270	-1.00	0.32	-3.865	3.198	2.018	1.170	14.040	7.715	69.82	3.09
1.524	-1.09	0.53	-9.863	19.460	1.574	1.078	9.396	7.000	71.72	3.22
1.778	-1.04	0.25	-3.402	1.786	2.219	0.857	15.830	6.223	70.73	1.97
2.032	-1.07	0.29	-3.380	1.917	1.758	0.996	10.590	6.269	71.18	1.91
2.286	-1.03	0.28	-3.539	2.206	1.788	0.821	11.200	5.429	70.10	1.83
2.540	-0.71	0.35	-12.660	22.860	1.488	0.811	8.739	4.914	65.38	3.17
2.794	-0.77	0.34	-5.960	5.876	1.246	0.848	7.104	4.780	66.32	2.24
3.048	-0.51	0.26	-10.190	11.480	1.102	0.688	6.063	3.163	62.20	2.68
3.302	-0.25	0.35	31.560	90.560	1.235	0.785	7.268	3.618	59.25	4.20
3.556	-0.12	0.23	41.520	89.790	1.046	0.612	5.722	3.260	56.92	2.26
3.810	-0.04	0.22	31.690	92.700	1.178	0.414	7.106	1.959	56.53	3.56
4.064	0.30	0.16	24.120	34.070	0.774	0.526	4.705	2.318	51.43	2.42
4.318	0.55	0.24	7.895	4.064	0.799	0.694	4.812	3.143	48.15	2.92
4.572	0.77	0.36	7.339	7.941	0.704	0.518	4.857	2.565	45.98	4.67
4.826	0.95	0.24	4.078	0.919	0.651	0.648	4.489	2.922	44.02	2.70
5.080	1.34	0.43	3.007	0.981	0.553	0.472	4.426	1.976	39.15	4.84
5.588	1.65	0.48	2.397	0.586	0.207	0.112	2.839	0.667	36.07	5.43
6.096	2.19	0.70	1.962	0.757	0.218	0.206	3.161	0.658	32.25	6.45
6.604	2.74	0.50	1.467	0.293	0.107	0.115	3.157	1.040	26.67	4.59
7.112	3.54	0.40	1.166	0.121	-0.021	0.156	2.892	0.799	21.97	3.21
7.620	4.11	0.53	1.026	0.127	-0.135	0.144	2.667	0.178	18.80	3.54
8.128	4.68	0.54	0.926	0.091	-0.129	0.082	2.951	0.239	15.40	1.71
8.636	5.36	0.53	0.805	0.081	-0.186	0.081	2.818	0.144	12.15	2.90
9.144	5.98	0.57	0.749	0.079	-0.172	0.096	3.047	0.285	10.37	2.37
9.652	6.83	0.44	0.661	0.031	-0.244	0.044	2.993	0.127	7.92	0.99
10.160	7.51	0.54	0.614	0.051	-0.223	0.103	2.976	0.115	6.42	1.72
10.670	8.20	0.58	0.583	0.042	-0.193	0.109	3.034	0.116	5.47	1.23
11.180	9.12	0.29	0.537	0.020	-0.184	0.078	3.082	0.096	4.18	0.80
11.680	9.91	0.56	0.527	0.023	-0.243	0.099	2.922	0.115	3.70	0.80
12.190	10.72	0.64	0.490	0.035	-0.196	0.080	2.913	0.131	2.85	1.01
12.700	11.79	0.58	0.464	0.022	-0.271	0.062	2.842	0.122	2.22	0.67
13.210	12.98	0.58	0.425	0.020	-0.280	0.066	2.804	0.123	1.52	0.49
13.720	13.71	0.86	0.410	0.036	-0.360	0.106	2.958	0.201	1.38	0.62
14.220	14.86	0.70	0.394	0.022	-0.425	0.082	2.819	0.126	1.05	0.39
14.730	16.08	0.54	0.364	0.016	-0.512	0.079	2.984	0.177	0.75	0.26

Table 51. (Continued)

15.240	17.03	0.85	0.350	0.033	-0.558	0.070	2.893	0.240	0.55	0.39
15.750	18.45	0.65	0.319	0.021	-0.703	0.133	3.185	0.335	0.48	0.32
16.260	19.48	0.66	0.306	0.019	-0.852	0.096	3.309	0.295	0.32	0.19
16.760	21.05	0.70	0.271	0.018	-1.124	0.162	3.917	0.454	0.13	0.09
17.270	22.19	0.57	0.242	0.023	-1.304	0.182	4.537	0.697	0.15	0.17
17.780	23.03	0.59	0.227	0.023	-1.566	0.171	5.469	0.820	0.15	0.16
18.290	23.92	0.68	0.211	0.024	-1.982	0.406	7.276	2.274	0.13	0.13
18.800	25.19	0.52	0.158	0.024	-2.371	0.270	9.494	1.812	0.00	0.00
19.300	25.75	0.46	0.135	0.022	-2.846	0.656	13.360	5.608	0.00	0.00
19.810	26.48	0.20	0.095	0.013	-3.280	0.280	15.730	2.517	0.00	0.00
20.320	26.74	0.12	0.075	0.013	-3.405	0.489	18.210	4.308	0.00	0.00
20.830	26.98	0.17	0.056	0.015	-3.030	0.625	15.570	4.639	0.00	0.00
21.590	27.24	0.03	0.029	0.003	-0.838	0.252	5.733	1.127	0.00	0.00
22.860	27.30	0.05	0.025	0.002	-0.024	0.546	4.177	0.711	0.00	0.00
24.130	27.29	0.04	0.023	0.002	0.107	0.482	4.369	0.867	0.00	0.00
25.400	27.21	0.06	0.022	0.002	0.223	0.176	3.805	0.550	0.00	0.00
26.670	27.16	0.01	0.021	0.002	0.341	0.196	3.938	0.552	0.00	0.00
27.940	27.10	0.06	0.022	0.002	-0.312	1.151	6.275	6.292	0.00	0.00
29.210	27.04	0.05	0.021	0.001	0.255	0.313	3.837	0.502	0.00	0.00
30.480	26.98	0.05	0.020	0.001	0.231	0.226	4.120	1.072	0.00	0.00
31.750	26.93	0.04	0.020	0.001	0.057	0.205	3.768	0.988	0.00	0.00

Table 52. Wake Measurements at 106.0% Chord for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
-68.580	26.57	0.12	0.021	0.002	0.081	0.197	3.022	0.526	0.00	0.00
-66.040	26.53	0.10	0.021	0.001	-0.026	0.225	3.130	0.728	0.00	0.00
-63.500	26.68	0.07	0.021	0.001	0.184	0.233	3.344	0.466	0.00	0.00
-60.960	26.67	0.16	0.022	0.002	0.287	0.299	3.583	0.670	0.00	0.00
-58.420	26.77	0.16	0.023	0.002	0.075	0.201	3.174	0.472	0.00	0.00
-55.880	26.95	0.06	0.025	0.002	0.219	0.255	3.554	0.734	0.00	0.00
-53.340	26.95	0.09	0.025	0.003	0.104	0.270	3.642	0.283	0.00	0.00
-50.800	27.00	0.19	0.028	0.003	0.256	0.247	4.265	1.223	0.00	0.00
-48.260	27.19	0.09	0.030	0.005	0.272	0.393	4.153	0.610	0.00	0.00
-45.720	27.28	0.14	0.034	0.004	-0.135	0.647	5.351	1.493	0.00	0.00
-43.180	27.32	0.11	0.043	0.009	-1.038	0.763	8.206	3.095	0.00	0.00
-40.640	27.05	0.09	0.071	0.010	-3.065	0.329	17.110	2.578	0.00	0.00
-38.100	25.99	0.49	0.141	0.026	-2.796	0.354	12.310	2.653	0.00	0.00
-37.590	25.92	0.36	0.139	0.018	-2.539	0.398	10.510	2.842	0.00	0.00
-37.080	25.52	0.49	0.161	0.023	-2.430	0.416	9.707	2.880	0.00	0.00
-36.570	25.25	0.48	0.168	0.023	-2.166	0.317	8.148	2.017	0.00	0.00
-36.070	24.39	0.66	0.204	0.028	-1.837	0.293	6.288	1.436	0.00	0.00
-35.560	24.24	0.90	0.205	0.036	-1.773	0.399	6.053	1.906	0.00	0.00
-35.050	22.73	1.25	0.259	0.042	-1.345	0.373	4.324	1.409	0.02	0.04
-34.540	22.26	1.49	0.267	0.046	-1.255	0.357	4.163	1.070	0.12	0.21
-34.030	21.68	1.65	0.291	0.058	-1.215	0.386	4.131	1.293	0.43	0.42
-33.530	20.58	0.58	0.334	0.049	-0.947	0.115	3.089	0.255	0.63	0.93
-33.020	20.03	0.64	0.335	0.030	-0.857	0.141	3.101	0.362	0.60	0.29
-32.510	18.86	1.24	0.364	0.041	-0.707	0.133	2.812	0.165	0.77	0.57
-32.000	17.10	1.76	0.414	0.053	-0.511	0.225	2.609	0.233	1.20	0.76
-31.490	16.50	1.39	0.428	0.055	-0.416	0.172	2.549	0.176	1.27	0.69
-30.990	15.52	1.35	0.452	0.030	-0.375	0.104	2.557	0.184	2.00	0.84
-30.480	14.33	0.86	0.501	0.026	-0.303	0.064	2.442	0.091	2.82	0.55
-29.970	13.72	1.55	0.502	0.053	-0.269	0.132	2.521	0.069	2.83	1.13
-29.460	12.66	1.05	0.544	0.052	-0.235	0.116	2.597	0.212	3.90	1.22
-28.950	11.68	0.91	0.594	0.066	-0.161	0.144	2.554	0.105	5.32	1.51
-28.450	11.30	0.95	0.618	0.042	-0.125	0.091	2.521	0.082	5.72	1.04
-27.940	10.20	1.35	0.677	0.094	-0.072	0.155	2.574	0.131	7.42	2.40
-27.430	9.13	1.82	0.738	0.149	-0.076	0.162	2.628	0.091	9.63	4.70
-26.920	8.34	1.27	0.792	0.121	-0.052	0.133	2.674	0.100	11.35	3.40
-26.410	8.19	1.49	0.802	0.175	-0.072	0.151	2.671	0.142	11.63	4.74
-25.910	6.74	0.87	0.973	0.115	-0.029	0.108	2.536	0.061	16.80	2.85
-25.400	5.86	0.69	1.057	0.142	0.049	0.105	2.690	0.175	18.07	3.51
-24.890	5.48	0.95	1.154	0.251	0.019	0.094	2.567	0.074	20.65	5.43

Table 52. (Continued)

-24.380	4.67	0.78	1.327	0.196	0.011	0.118	2.556	0.034	23.67	3.77
-23.870	3.71	0.43	1.609	0.155	0.093	0.061	2.473	0.075	28.88	1.75
-23.370	3.10	1.05	2.060	0.925	0.134	0.089	2.519	0.105	32.35	6.20
-22.860	2.38	0.86	2.703	1.146	0.197	0.097	2.411	0.061	37.42	5.98
-22.350	1.78	0.61	3.434	1.245	0.218	0.071	2.524	0.144	40.72	4.09
-21.840	1.48	1.13	24.080	52.540	0.288	0.128	2.497	0.127	44.03	7.58
-21.330	0.36	0.38	6.490	27.060	0.455	0.040	2.722	0.164	51.30	2.07
-20.830	-0.11	0.40	-9.959	36.750	0.475	0.058	2.727	0.250	55.07	3.20
-20.320	-0.72	0.37	-12.230	15.600	0.586	0.042	2.972	0.233	60.33	3.00
-19.300	-1.70	0.39	-2.738	0.870	0.651	0.083	3.062	0.243	69.07	4.05
-18.290	-2.17	0.50	-2.078	0.772	0.691	0.096	3.225	0.284	72.93	4.21
-17.270	-2.76	0.20	-1.409	0.213	0.770	0.055	3.528	0.409	78.33	3.05
-16.250	-3.23	0.41	-1.107	0.178	0.772	0.139	3.800	0.652	83.03	3.39
-15.240	-3.79	0.25	-0.829	0.075	0.761	0.120	4.313	0.893	88.48	2.27
-13.210	-4.03	0.28	-0.684	0.073	0.670	0.104	4.088	0.400	92.07	1.88
-11.170	-4.13	0.19	-0.586	0.033	0.488	0.119	3.702	0.420	94.57	1.03
-9.141	-3.80	0.21	-0.615	0.041	0.354	0.219	4.190	1.612	94.60	0.69
-8.125	-3.43	0.13	-0.710	0.033	0.370	0.215	3.629	0.470	92.03	0.86
-7.617	-3.10	0.20	-0.800	0.071	0.371	0.089	3.656	0.338	89.65	1.94
-7.109	-2.67	0.12	-1.001	0.070	0.518	0.276	4.459	1.965	85.37	1.35
-6.601	-1.96	0.09	-1.521	0.122	0.518	0.199	3.692	0.921	76.85	1.65
-6.093	-0.93	0.23	-3.672	1.149	0.481	0.125	3.545	0.454	64.50	2.95
-5.585	0.71	0.32	6.056	3.014	0.378	0.079	3.201	0.504	45.33	3.04
-5.331	1.54	0.24	2.557	0.431	0.313	0.155	3.179	0.783	36.67	2.32
-5.077	2.65	0.26	1.522	0.137	0.242	0.063	2.835	0.093	27.57	2.11
-4.823	3.64	0.32	1.144	0.088	0.222	0.086	2.952	0.169	19.63	1.62
-4.569	5.00	0.21	0.854	0.029	0.151	0.091	3.032	0.158	12.45	1.06
-4.315	6.30	0.28	0.697	0.030	0.116	0.100	2.933	0.183	7.35	0.78
-4.061	7.48	0.44	0.609	0.033	0.122	0.099	3.007	0.221	4.78	0.94
-3.807	9.07	0.33	0.532	0.010	0.168	0.081	2.856	0.188	2.62	0.28
-3.553	10.58	0.46	0.470	0.020	0.137	0.063	2.759	0.123	1.40	0.51
-3.299	12.15	0.33	0.426	0.018	-0.008	0.052	2.594	0.059	0.72	0.47
-3.045	14.03	0.24	0.374	0.009	-0.158	0.051	2.512	0.170	0.27	0.20
-2.791	15.79	0.55	0.336	0.013	-0.285	0.069	2.554	0.139	0.17	0.11
-2.537	17.69	0.47	0.292	0.015	-0.469	0.105	2.704	0.226	0.02	0.04
-2.283	19.58	0.46	0.248	0.016	-0.733	0.074	3.210	0.180	0.00	0.00
-2.029	21.24	0.32	0.212	0.017	-0.951	0.131	3.788	0.497	0.00	0.00
-1.775	22.65	0.28	0.178	0.007	-1.215	0.092	4.581	0.222	0.00	0.00
-1.521	24.01	0.26	0.143	0.012	-1.448	0.123	6.121	0.584	0.00	0.00
-1.267	24.98	0.16	0.117	0.009	-1.461	0.225	6.553	0.915	0.00	0.00
-0.759	26.38	0.42	0.075	0.017	-1.246	0.734	6.965	3.992	0.00	0.00
2.540	27.68	0.05	0.025	0.001	-0.064	0.209	3.397	0.476	0.00	0.00
5.080	27.50	0.04	0.023	0.001	0.228	0.131	3.066	0.138	0.00	0.00
7.620	27.30	0.06	0.021	0.001	0.124	0.220	3.519	0.382	0.00	0.00
10.160	27.18	0.06	0.021	0.001	0.255	0.120	3.901	0.727	0.00	0.00

Table 52. (Continued)

12.700	27.01	0.07	0.021	0.000	0.120	0.363	3.644	0.480	0.00	0.00
15.240	26.87	0.06	0.021	0.001	0.094	0.326	3.745	0.760	0.00	0.00
17.780	26.79	0.05	0.020	0.001	0.056	0.195	3.106	0.400	0.00	0.00
20.320	26.72	0.09	0.021	0.001	0.095	0.247	3.238	0.450	0.00	0.00
22.860	26.61	0.08	0.020	0.002	0.042	0.144	2.883	0.358	0.00	0.00
25.400	26.50	0.06	0.020	0.002	0.202	0.157	3.494	0.653	0.00	0.00

Table 53. Wake Measurements at 109.7% Chord for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
-66.040	25.99	0.14	0.022	0.001	0.108	0.172	3.257	0.426	0.00	0.00
-63.500	26.07	0.17	0.023	0.002	0.084	0.455	3.743	0.752	0.00	0.00
-60.960	26.15	0.18	0.024	0.002	0.205	0.378	3.976	0.461	0.00	0.00
-58.420	26.24	0.15	0.025	0.001	0.085	0.178	3.269	0.220	0.00	0.00
-55.880	26.30	0.09	0.028	0.003	0.152	0.422	4.236	1.145	0.00	0.00
-53.340	26.42	0.14	0.030	0.005	-0.229	0.827	4.762	3.047	0.00	0.00
-50.800	26.52	0.12	0.032	0.004	-0.180	0.560	4.816	1.605	0.00	0.00
-48.260	26.66	0.15	0.031	0.006	-0.226	0.365	4.125	1.180	0.00	0.00
-45.720	26.71	0.10	0.048	0.015	-1.135	1.066	9.067	4.277	0.00	0.00
-43.180	26.55	0.29	0.066	0.023	-2.020	0.814	10.900	3.149	0.00	0.00
-40.640	26.07	0.39	0.103	0.027	-2.556	0.634	11.750	3.359	0.00	0.00
-39.370	25.21	0.63	0.150	0.031	-2.431	0.368	9.744	2.639	0.00	0.00
-38.100	24.27	0.98	0.195	0.039	-2.129	0.439	7.925	2.615	0.07	0.17
-37.590	23.39	1.37	0.230	0.054	-1.820	0.470	6.429	2.299	0.27	0.34
-37.080	22.69	1.23	0.254	0.044	-1.638	0.356	5.571	1.441	0.28	0.18
-36.570	22.14	1.58	0.269	0.057	-1.364	0.413	4.457	1.365	0.27	0.34
-36.070	21.36	1.49	0.298	0.060	-1.277	0.316	4.338	1.282	0.60	0.57
-35.560	20.40	1.74	0.321	0.056	-1.128	0.318	3.985	0.813	0.88	0.63
-35.050	19.59	1.73	0.348	0.048	-0.961	0.240	3.361	0.430	0.90	0.57
-34.540	18.38	2.02	0.386	0.063	-0.833	0.256	3.207	0.441	1.57	0.87
-34.030	17.50	2.00	0.409	0.063	-0.693	0.241	2.983	0.382	1.70	0.93
-33.530	16.00	2.05	0.456	0.076	-0.501	0.202	2.651	0.250	2.22	1.27
-33.020	15.72	2.43	0.456	0.088	-0.491	0.220	2.767	0.167	2.48	1.57
-32.510	14.26	1.78	0.517	0.072	-0.361	0.159	2.631	0.169	3.53	1.75
-32.000	13.44	2.00	0.551	0.102	-0.380	0.141	2.695	0.134	4.77	2.39
-31.490	12.79	1.95	0.552	0.090	-0.287	0.089	2.677	0.079	4.58	2.50
-30.990	11.47	1.44	0.621	0.083	-0.277	0.084	2.613	0.124	6.57	2.61
-30.480	10.79	1.77	0.677	0.101	-0.204	0.093	2.621	0.088	7.90	3.20
-29.970	10.26	1.79	0.705	0.129	-0.140	0.093	2.481	0.075	8.83	4.66
-29.460	9.30	1.75	0.756	0.161	-0.209	0.084	2.656	0.137	10.48	4.23
-28.950	8.76	1.87	0.786	0.154	-0.162	0.106	2.637	0.110	11.43	4.89
-28.450	8.10	1.64	0.846	0.163	-0.108	0.112	2.668	0.092	12.92	4.66
-27.940	7.26	1.46	0.922	0.169	-0.142	0.118	2.664	0.162	14.70	4.41
-27.430	6.34	1.82	1.085	0.300	-0.058	0.116	2.502	0.101	18.87	7.00
-26.920	5.46	1.51	1.248	0.328	0.002	0.123	2.529	0.100	22.23	7.00
-26.410	4.88	1.51	1.390	0.379	-0.005	0.111	2.491	0.077	24.38	6.78
-25.910	4.30	1.13	1.518	0.365	-0.025	0.153	2.390	0.086	27.13	5.95
-24.890	2.39	1.34	3.408	2.040	0.221	0.154	2.405	0.112	39.17	8.04
-23.870	1.47	1.17	16.160	28.540	0.292	0.117	2.418	0.053	44.20	8.17

Table 53. (Continued)

-22.860	-0.05	1.01	0.556	9.188	0.481	0.181	2.698	0.320	55.12	8.05
-21.840	-0.90	0.91	-28.190	86.630	0.556	0.104	2.800	0.349	61.65	6.91
-20.830	-1.88	0.89	-3.058	1.569	0.649	0.126	3.051	0.334	68.38	6.74
-19.810	-2.46	0.92	-2.032	0.999	0.678	0.160	3.154	0.523	73.88	8.03
-17.780	-3.44	0.60	-1.081	0.277	0.752	0.145	3.681	0.557	83.13	5.80
-15.750	-3.91	0.25	-0.817	0.078	0.737	0.084	4.049	0.319	89.15	2.17
-13.710	-3.83	0.15	-0.769	0.028	0.592	0.173	3.838	0.414	89.87	0.79
-11.680	-3.01	0.25	-1.030	0.099	0.565	0.144	4.050	0.680	84.43	1.52
-11.170	-2.62	0.18	-1.219	0.125	0.505	0.137	3.751	0.772	80.58	2.17
-10.670	-2.07	0.16	-1.640	0.119	0.495	0.077	3.516	0.221	74.98	1.42
-10.160	-1.44	0.19	-2.499	0.371	0.424	0.112	3.098	0.227	68.60	1.38
-9.649	-0.39	0.15	-11.460	6.334	0.384	0.056	3.081	0.125	56.53	2.11
-9.141	0.53	0.25	9.527	6.146	0.306	0.086	2.924	0.266	47.05	2.99
-8.633	1.88	0.35	2.279	0.437	0.195	0.081	2.759	0.179	34.95	3.41
-8.379	2.51	0.25	1.687	0.169	0.119	0.045	2.955	0.130	28.35	2.32
-8.125	3.24	0.42	1.344	0.188	0.122	0.083	2.901	0.167	23.77	2.71
-7.871	3.98	0.31	1.094	0.108	0.035	0.084	2.893	0.168	18.08	2.57
-7.617	4.93	0.39	0.899	0.066	0.080	0.101	3.067	0.105	13.53	2.09
-7.363	5.64	0.40	0.783	0.051	0.099	0.095	3.049	0.241	10.12	1.61
-7.109	6.54	0.36	0.684	0.040	0.135	0.121	3.026	0.263	7.42	1.41
-6.855	7.41	0.53	0.629	0.057	0.114	0.100	3.173	0.183	5.55	1.46
-6.601	8.41	0.42	0.568	0.030	0.050	0.054	2.895	0.179	3.83	1.32
-6.347	9.44	0.39	0.507	0.029	0.105	0.049	2.901	0.130	2.08	0.57
-6.093	10.65	0.39	0.462	0.022	0.010	0.055	2.686	0.190	1.18	0.44
-5.839	11.69	0.57	0.434	0.022	0.064	0.048	2.651	0.146	0.70	0.41
-5.585	13.00	0.61	0.399	0.025	-0.055	0.063	2.663	0.072	0.50	0.30
-5.331	14.39	0.61	0.358	0.027	-0.147	0.054	2.544	0.075	0.17	0.11
-5.077	15.76	0.41	0.330	0.014	-0.292	0.029	2.623	0.073	0.08	0.17
-4.823	16.98	0.41	0.302	0.012	-0.413	0.065	2.794	0.120	0.12	0.08
-4.569	18.29	0.62	0.275	0.022	-0.556	0.068	2.896	0.162	0.05	0.09
-4.315	19.63	0.63	0.244	0.018	-0.728	0.085	3.235	0.140	0.02	0.04
-4.061	20.66	0.39	0.227	0.010	-0.880	0.053	3.580	0.151	0.00	0.00
-3.807	21.83	0.37	0.197	0.012	-1.032	0.092	4.179	0.429	0.00	0.00
-3.553	22.87	0.39	0.173	0.011	-1.299	0.089	5.221	0.482	0.00	0.00
-3.045	24.44	0.32	0.136	0.012	-1.731	0.190	7.984	0.982	0.00	0.00
-2.537	25.61	0.35	0.097	0.017	-1.224	0.436	5.935	1.546	0.00	0.00
-1.267	27.02	0.22	0.052	0.010	-0.801	0.865	6.221	4.682	0.00	0.00
2.540	27.17	0.13	0.027	0.002	0.181	0.177	3.092	0.262	0.00	0.00
5.080	27.03	0.10	0.024	0.001	0.082	0.180	3.284	0.361	0.00	0.00
7.620	26.87	0.07	0.022	0.002	0.091	0.227	3.579	0.457	0.00	0.00
10.160	26.83	0.07	0.023	0.002	0.226	0.231	3.568	0.443	0.00	0.00
12.700	26.65	0.07	0.020	0.001	0.161	0.269	3.043	0.605	0.00	0.00
15.240	26.58	0.08	0.020	0.002	0.204	0.350	3.372	0.695	0.00	0.00
17.780	26.53	0.17	0.021	0.001	0.125	0.157	3.184	0.503	0.00	0.00
20.320	26.46	0.07	0.019	0.001	0.317	0.153	3.279	0.367	0.00	0.00

Table 53. (Continued)

22.860	26.44	0.12	0.020	0.001	0.283	0.269	3.370	0.627	0.00	0.00
25.400	26.39	0.06	0.019	0.002	0.243	0.350	3.480	0.596	0.00	0.00

Table 54. Wake Measurements at 131.9% Chord for an incidence angle of -1.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
-75.110	25.27	0.12	----	----	----	----	----	----	----	----
-74.030	25.28	0.09	----	----	----	----	----	----	----	----
-72.950	25.27	0.12	----	----	----	----	----	----	----	----
-71.880	25.27	0.11	----	----	----	----	----	----	----	----
-70.800	25.26	0.13	----	----	----	----	----	----	----	----
-69.720	25.22	0.14	----	----	----	----	----	----	----	----
-68.650	25.22	0.10	----	----	----	----	----	----	----	----
-67.570	25.23	0.12	----	----	----	----	----	----	----	----
-66.490	25.20	0.11	----	----	----	----	----	----	----	----
-65.420	25.22	0.14	----	----	----	----	----	----	----	----
-64.340	25.19	0.13	----	----	----	----	----	----	----	----
-63.260	25.13	0.10	----	----	----	----	----	----	----	----
-62.180	25.11	0.10	----	----	----	----	----	----	----	----
-61.110	25.08	0.11	----	----	----	----	----	----	----	----
-60.030	24.97	0.15	----	----	----	----	----	----	----	----
-58.950	25.02	0.11	----	----	----	----	----	----	----	----
-57.880	24.88	0.26	----	----	----	----	----	----	----	----
-56.800	24.83	0.27	----	----	----	----	----	----	----	----
-55.720	24.74	0.24	----	----	----	----	----	----	----	----
-54.650	24.61	0.31	----	----	----	----	----	----	----	----
-53.570	24.55	0.51	----	----	----	----	----	----	----	----
-52.490	24.29	0.63	----	----	----	----	----	----	----	----
-51.410	24.11	0.43	----	----	----	----	----	----	----	----
-50.340	23.69	0.62	----	----	----	----	----	----	----	----
-49.260	23.36	0.68	----	----	----	----	----	----	----	----
-48.180	22.64	0.82	----	----	----	----	----	----	----	----
-47.110	21.75	0.67	----	----	----	----	----	----	----	----
-46.030	20.45	0.99	----	----	----	----	----	----	----	----
-44.950	19.63	1.19	----	----	----	----	----	----	----	----
-43.880	19.97	0.91	----	----	----	----	----	----	----	----
-42.800	16.87	2.01	----	----	----	----	----	----	----	----
-41.720	16.90	1.49	----	----	----	----	----	----	----	----
-40.650	15.74	0.80	----	----	----	----	----	----	----	----
-39.570	13.98	1.65	----	----	----	----	----	----	----	----
-38.490	12.56	0.73	----	----	----	----	----	----	----	----
-37.410	11.10	1.90	----	----	----	----	----	----	----	----
-36.340	9.94	0.83	----	----	----	----	----	----	----	----
-35.260	8.41	1.36	----	----	----	----	----	----	----	----
-34.180	6.74	1.13	----	----	----	----	----	----	----	----

Table 54. (Continued)

-33.110	6.06	1.08									
-32.030	5.30	1.02									
-30.950	4.58	1.09									
-29.880	4.20	0.51									
-28.800	4.44	0.62									
-27.720	5.22	0.48									
-26.640	6.20	0.17									
-25.570	7.56	0.38									
-24.490	8.65	0.37									
-23.410	10.12	0.43									
-22.340	11.59	0.24									
-21.260	13.28	0.23									
-20.180	14.76	0.19									
-19.110	16.19	0.22									
-18.030	17.53	0.27									
-16.950	18.95	0.21									
-15.870	20.07	0.22									
-14.800	21.14	0.21									
-13.720	22.13	0.17									
-12.640	22.92	0.13									
-11.570	23.61	0.12									
-10.490	24.08	0.17									
-9.413	24.44	0.05									
-8.336	24.70	0.15									
-7.259	24.86	0.13									
-6.182	24.93	0.11									
-5.105	24.97	0.12									
-4.028	24.99	0.13									
-2.951	24.99	0.14									
-1.875	25.00	0.13									
-0.798	25.00	0.13									
0.277	25.01	0.10									
1.354	24.97	0.14									
2.431	24.99	0.15									
3.508	24.99	0.13									
4.585	25.03	0.13									
5.662	25.04	0.12									
6.739	25.01	0.16									
7.816	25.05	0.13									
8.893	25.07	0.10									

Table 55. Boundary Layer Measurements at 4.3% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.127	26.64	1.39	0.150	0.042	-1.929	0.546	8.130	3.002	0.00	0.00
0.254	29.46	0.37	0.073	0.018	-3.295	0.311	18.560	3.672	0.00	0.00
1.270	31.04	0.09	0.024	0.001	0.286	0.103	3.298	0.241	0.00	0.00
2.540	31.02	0.07	0.025	0.005	-0.181	0.751	4.455	2.965	0.00	0.00
3.810	31.11	0.07	0.022	0.000	0.310	0.194	3.044	0.573	0.00	0.00
5.080	31.21	0.07	0.022	0.001	0.325	0.320	3.449	0.732	0.00	0.00
6.350	31.21	0.03	0.021	0.001	0.369	0.170	3.309	0.541	0.00	0.00
7.620	31.28	0.07	0.021	0.001	0.298	0.372	3.379	1.039	0.00	0.00
8.890	31.37	0.08	0.022	0.002	0.428	0.318	3.685	1.132	0.00	0.00
10.160	31.44	0.09	0.021	0.002	0.281	0.248	2.972	0.335	0.00	0.00
11.430	31.53	0.05	0.020	0.001	0.125	0.143	2.861	0.350	0.00	0.00
12.700	31.67	0.07	0.020	0.001	0.195	0.184	2.777	0.362	0.00	0.00
13.970	31.75	0.07	0.020	0.001	0.204	0.279	3.307	0.423	0.00	0.00
15.240	31.83	0.06	0.020	0.001	-0.178	0.203	3.288	0.640	0.00	0.00
16.510	31.92	0.11	0.020	0.001	0.180	0.312	3.557	0.616	0.00	0.00
17.780	32.05	0.08	0.020	0.001	0.199	0.132	3.671	0.313	0.00	0.00
19.050	32.13	0.09	0.020	0.001	0.410	0.184	3.706	0.434	0.00	0.00
20.320	32.27	0.09	0.020	0.002	0.543	0.264	3.797	0.789	0.00	0.00
21.590	32.42	0.05	0.020	0.001	0.508	0.148	3.553	0.412	0.00	0.00
22.860	32.56	0.06	0.021	0.001	0.243	0.103	3.184	0.323	0.00	0.00
24.130	32.68	0.08	0.022	0.002	0.233	0.190	3.260	0.563	0.00	0.00
25.400	32.76	0.09	0.020	0.001	0.470	0.409	3.589	0.787	0.00	0.00

Table 56. Boundary Layer Measurements at 9.7% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	26.24	0.27	0.132	0.016	-1.698	0.248	7.086	1.704	0.00	0.00
0.381	28.01	0.19	0.071	0.014	-2.530	0.547	14.210	4.860	0.00	0.00
0.508	28.66	0.15	0.049	0.011	-2.528	0.872	14.910	4.859	0.00	0.00
0.762	29.03	0.17	0.042	0.015	-2.717	1.418	18.010	8.691	0.00	0.00
1.270	29.43	0.05	0.023	0.002	0.213	0.229	3.705	0.693	0.00	0.00
2.540	29.55	0.07	0.023	0.001	0.482	0.494	4.860	1.750	0.00	0.00
3.810	29.68	0.10	0.022	0.002	0.409	0.176	3.519	0.429	0.00	0.00
5.080	29.81	0.08	0.022	0.002	0.330	0.278	3.389	0.497	0.00	0.00
6.350	29.91	0.10	0.020	0.001	0.372	0.379	3.457	0.890	0.00	0.00
7.620	30.05	0.03	0.021	0.001	0.233	0.205	2.901	0.418	0.00	0.00
8.890	30.20	0.06	0.021	0.001	0.389	0.378	3.667	1.701	0.00	0.00
10.160	30.28	0.06	0.020	0.001	0.056	0.398	3.176	0.495	0.00	0.00
11.430	30.43	0.09	0.020	0.002	0.102	0.201	3.477	0.530	0.00	0.00
12.700	30.55	0.05	0.019	0.001	0.174	0.187	3.536	0.338	0.00	0.00
13.970	30.71	0.04	0.020	0.001	0.425	0.305	4.152	0.773	0.00	0.00
15.240	30.84	0.07	0.019	0.002	0.409	0.174	3.911	0.106	0.00	0.00
16.510	30.92	0.04	0.020	0.002	0.539	0.204	4.490	0.798	0.00	0.00
17.780	31.05	0.03	0.020	0.002	0.570	0.106	3.991	0.628	0.00	0.00
19.050	31.23	0.09	0.020	0.002	0.646	0.223	3.805	0.970	0.00	0.00
20.320	31.35	0.05	0.020	0.001	0.481	0.252	3.086	0.432	0.00	0.00
21.590	31.49	0.06	0.020	0.002	0.375	0.101	2.821	0.383	0.00	0.00
22.860	31.60	0.04	0.020	0.002	0.305	0.236	3.076	0.369	0.00	0.00
24.130	31.76	0.11	0.020	0.001	0.235	0.133	3.085	0.199	0.00	0.00
25.400	31.85	0.08	0.020	0.002	0.262	0.296	3.828	0.622	0.00	0.00

Table 57. Boundary Layer Measurements at 20.5% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	18.75	0.96	0.233	0.026	-0.369	0.189	2.707	0.361	0.00	0.00
0.381	21.04	0.56	0.176	0.015	-0.752	0.174	3.294	0.490	0.00	0.00
0.508	22.79	0.64	0.144	0.014	-1.230	0.320	4.799	1.236	0.00	0.00
0.762	24.89	0.28	0.103	0.009	-1.719	0.267	6.901	2.069	0.00	0.00
1.270	26.34	0.17	0.066	0.010	-2.722	0.538	14.290	4.452	0.00	0.00
2.540	27.25	0.07	0.024	0.004	-0.134	0.617	4.773	2.790	0.00	0.00
3.810	27.39	0.10	0.022	0.001	0.593	0.376	4.485	1.574	0.00	0.00
5.080	27.50	0.05	0.022	0.002	0.405	0.257	3.306	0.745	0.00	0.00
6.350	27.62	0.07	0.021	0.001	0.153	0.270	3.301	0.276	0.00	0.00
7.620	27.81	0.06	0.021	0.001	0.278	0.164	3.295	0.639	0.00	0.00
8.890	27.94	0.05	0.020	0.002	0.348	0.235	3.610	1.307	0.00	0.00
10.160	28.06	0.05	0.020	0.001	0.200	0.105	3.121	0.237	0.00	0.00
11.430	28.23	0.07	0.021	0.002	0.264	0.065	3.455	0.329	0.00	0.00
12.700	28.33	0.06	0.020	0.001	0.322	0.349	3.780	0.748	0.00	0.00
13.970	28.53	0.03	0.021	0.000	0.454	0.344	3.941	0.466	0.00	0.00
15.240	28.63	0.08	0.022	0.002	0.250	0.230	3.637	0.375	0.00	0.00
16.510	28.78	0.07	0.021	0.001	0.437	0.136	3.280	0.349	0.00	0.00
17.780	28.93	0.06	0.021	0.001	0.059	0.166	3.104	0.467	0.00	0.00
19.050	29.09	0.07	0.021	0.001	0.396	0.277	3.468	0.648	0.00	0.00
20.320	29.20	0.11	0.020	0.001	0.108	0.254	3.653	0.544	0.00	0.00
21.590	29.39	0.08	0.021	0.002	0.268	0.344	3.852	0.398	0.00	0.00
22.860	29.47	0.04	0.020	0.003	0.047	0.558	4.424	1.169	0.00	0.00
24.130	29.62	0.09	0.020	0.002	0.251	0.147	4.188	0.687	0.00	0.00
25.400	29.82	0.08	0.021	0.002	0.341	0.160	3.474	0.666	0.00	0.00

Table 58. Boundary Layer Measurements at 30.3% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	16.37	0.60	0.243	0.013	-0.235	0.041	2.518	0.067	0.00	0.00
0.381	18.01	0.20	0.204	0.002	-0.363	0.083	2.746	0.177	0.00	0.00
0.508	19.08	0.26	0.186	0.005	-0.459	0.095	2.993	0.195	0.00	0.00
0.635	20.07	0.19	0.171	0.007	-0.630	0.118	3.526	0.484	0.00	0.00
0.762	20.72	0.23	0.163	0.006	-0.683	0.203	3.371	0.646	0.00	0.00
1.016	22.16	0.17	0.135	0.008	-0.990	0.291	4.357	1.584	0.00	0.00
1.270	23.16	0.19	0.113	0.008	-1.137	0.105	4.342	0.598	0.00	0.00
1.778	24.58	0.19	0.078	0.009	-2.018	0.409	8.826	2.974	0.00	0.00
2.540	25.57	0.10	0.047	0.012	-3.032	1.090	18.890	8.078	0.00	0.00
3.810	25.96	0.05	0.022	0.001	-0.093	0.297	3.405	0.613	0.00	0.00
5.080	26.13	0.03	0.022	0.002	0.082	0.227	3.567	0.481	0.00	0.00
6.350	26.24	0.03	0.021	0.001	0.287	0.372	3.989	1.301	0.00	0.00
7.620	26.38	0.08	0.021	0.002	0.321	0.255	3.377	0.706	0.00	0.00
8.890	26.53	0.02	0.020	0.001	0.308	0.140	2.996	0.416	0.00	0.00
10.160	26.65	0.07	0.020	0.002	0.143	0.122	2.998	0.452	0.00	0.00
11.430	26.82	0.06	0.020	0.001	0.076	0.122	3.431	0.574	0.00	0.00
12.700	26.91	0.03	0.020	0.001	0.226	0.252	3.533	0.537	0.00	0.00
13.970	27.03	0.09	0.021	0.002	0.119	0.323	3.763	0.577	0.00	0.00
15.240	27.17	0.07	0.021	0.001	0.110	0.213	3.555	0.479	0.00	0.00
16.510	27.36	0.03	0.020	0.001	0.179	0.398	4.362	2.216	0.00	0.00
17.780	27.49	0.03	0.020	0.001	0.407	0.393	3.862	1.249	0.00	0.00
19.050	27.63	0.08	0.021	0.001	0.095	0.275	3.113	0.333	0.00	0.00
20.320	27.76	0.05	0.021	0.001	0.079	0.209	2.633	0.169	0.00	0.00
21.590	27.93	0.06	0.021	0.001	0.126	0.178	3.389	0.428	0.00	0.00
22.860	28.07	0.06	0.021	0.002	-0.046	0.267	3.655	0.658	0.00	0.00
24.130	28.18	0.10	0.020	0.002	0.022	0.280	3.698	0.757	0.00	0.00
25.400	28.36	0.08	0.021	0.001	0.534	0.432	4.040	1.523	0.00	0.00

Table 59. Boundary Layer Measurements at 40.0% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	14.46	0.39	0.251	0.013	-0.101	0.080	2.451	0.113	0.00	0.00
0.381	15.81	0.26	0.216	0.010	-0.221	0.106	2.878	0.129	0.00	0.00
0.508	16.84	0.26	0.189	0.007	-0.230	0.170	3.114	0.523	0.00	0.00
0.635	17.46	0.27	0.183	0.012	-0.434	0.267	3.452	0.892	0.03	0.09
0.762	18.00	0.14	0.172	0.016	-0.452	0.332	3.607	1.331	0.07	0.17
0.889	18.62	0.18	0.164	0.008	-0.513	0.161	3.650	0.496	0.00	0.00
1.016	19.09	0.21	0.159	0.010	-0.587	0.288	3.789	1.143	0.02	0.04
1.270	20.11	0.11	0.141	0.009	-0.773	0.257	4.225	0.964	0.00	0.00
1.524	20.89	0.15	0.137	0.009	-1.062	0.352	5.047	1.835	0.02	0.04
1.778	21.60	0.27	0.126	0.015	-1.416	0.375	6.525	1.816	0.00	0.00
2.032	22.51	0.14	0.101	0.007	-1.375	0.231	5.599	1.365	0.00	0.00
2.540	23.49	0.14	0.084	0.011	-2.589	0.466	12.800	3.649	0.00	0.00
3.810	24.69	0.05	0.027	0.002	-0.431	0.876	5.355	3.733	0.00	0.00
5.080	24.93	0.08	0.022	0.002	0.228	0.188	3.757	0.583	0.00	0.00
6.350	25.08	0.05	0.022	0.002	0.075	0.190	3.483	0.336	0.00	0.00
7.620	25.15	0.06	0.023	0.002	0.335	0.317	4.140	0.926	0.00	0.00
8.890	25.30	0.06	0.022	0.002	0.219	0.352	3.924	0.752	0.00	0.00
10.160	25.44	0.05	0.022	0.002	0.272	0.237	3.245	0.422	0.00	0.00
11.430	25.60	0.02	0.023	0.002	0.111	0.208	3.232	0.509	0.00	0.00
12.700	25.72	0.05	0.022	0.001	0.113	0.274	3.082	0.371	0.00	0.00
13.970	25.80	0.08	0.022	0.001	-0.002	0.250	3.586	0.733	0.00	0.00
15.240	25.95	0.04	0.021	0.002	-0.055	0.343	3.883	1.047	0.00	0.00
16.510	26.10	0.06	0.021	0.001	0.264	0.139	3.567	0.536	0.00	0.00
17.780	26.22	0.04	0.022	0.001	0.212	0.220	3.550	0.332	0.00	0.00
19.050	26.37	0.08	0.022	0.002	0.245	0.185	3.618	0.987	0.00	0.00
20.320	26.55	0.06	0.021	0.001	0.047	0.265	2.948	0.407	0.00	0.00
21.590	26.63	0.04	0.021	0.001	0.197	0.225	3.065	0.179	0.00	0.00
22.860	26.75	0.07	0.020	0.001	0.076	0.184	3.113	0.567	0.00	0.00
24.130	26.94	0.04	0.021	0.001	0.160	0.244	3.326	0.335	0.00	0.00
25.400	27.09	0.06	0.022	0.001	0.316	0.160	4.067	0.915	0.00	0.00

Table 60. Boundary Layer Measurements at 49.7% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	13.36	0.39	0.278	0.031	-0.061	0.146	2.627	0.567	0.15	0.39
0.381	14.65	0.28	0.233	0.017	-0.185	0.147	2.793	0.459	0.03	0.09
0.508	15.56	0.40	0.207	0.022	-0.301	0.113	2.864	0.275	0.00	0.00
0.635	16.20	0.41	0.197	0.028	-0.447	0.228	3.191	0.577	0.00	0.00
0.762	16.77	0.37	0.181	0.023	-0.516	0.210	3.453	0.629	0.00	0.00
1.016	17.67	0.28	0.162	0.016	-0.543	0.320	3.657	1.081	0.00	0.00
1.270	18.41	0.18	0.154	0.017	-0.594	0.291	4.025	1.089	0.00	0.00
1.524	19.18	0.43	0.150	0.026	-0.818	0.300	4.168	0.987	0.00	0.00
1.778	20.09	0.41	0.136	0.019	-0.882	0.339	4.348	1.505	0.00	0.00
2.032	20.56	0.22	0.127	0.018	-1.021	0.391	4.629	1.472	0.00	0.00
2.540	21.77	0.30	0.107	0.017	-1.350	0.346	5.178	1.470	0.00	0.00
3.810	23.57	0.26	0.060	0.034	-2.425	1.095	12.550	6.136	0.00	0.00
5.080	24.09	0.08	0.024	0.003	0.027	0.578	4.128	1.217	0.00	0.00
6.350	24.29	0.06	0.023	0.001	0.273	0.144	3.319	0.729	0.00	0.00
7.620	24.40	0.08	0.023	0.002	0.239	0.343	3.892	0.491	0.00	0.00
8.890	24.54	0.05	0.023	0.002	0.245	0.250	3.499	0.488	0.00	0.00
10.160	24.65	0.07	0.022	0.001	-0.072	0.217	3.310	0.225	0.00	0.00
11.430	24.79	0.08	0.022	0.002	0.010	0.296	3.595	0.585	0.00	0.00
12.700	24.86	0.10	0.022	0.001	0.041	0.254	3.550	0.713	0.00	0.00
13.970	25.00	0.10	0.022	0.001	0.025	0.336	3.614	0.473	0.00	0.00
15.240	25.14	0.07	0.022	0.002	0.260	0.246	3.942	0.461	0.00	0.00
16.510	25.23	0.05	0.022	0.001	0.182	0.138	3.421	1.201	0.00	0.00
17.780	25.38	0.05	0.023	0.002	0.234	0.414	3.866	1.128	0.00	0.00
19.050	25.52	0.09	0.022	0.002	0.122	0.297	3.227	0.591	0.00	0.00
20.320	25.66	0.09	0.022	0.002	0.157	0.204	3.066	0.484	0.00	0.00
21.590	25.80	0.08	0.022	0.001	0.156	0.245	3.714	0.647	0.00	0.00
22.860	25.88	0.07	0.021	0.002	-0.043	0.173	3.298	0.333	0.00	0.00
24.130	26.03	0.04	0.021	0.002	0.152	0.193	3.607	0.553	0.00	0.00
25.400	26.20	0.08	0.021	0.002	0.172	0.221	3.611	0.502	0.00	0.00

Table 61. Boundary Layer Measurements at 60.5% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	12.86	0.18	0.265	0.007	-0.033	0.070	2.361	0.062	0.00	0.00
0.381	14.00	0.22	0.229	0.010	-0.163	0.094	2.630	0.164	0.00	0.00
0.508	14.91	0.18	0.203	0.011	-0.331	0.188	2.876	0.358	0.00	0.00
0.762	15.94	0.24	0.179	0.013	-0.434	0.135	3.311	0.252	0.00	0.00
1.016	16.82	0.12	0.161	0.011	-0.509	0.215	3.564	0.550	0.00	0.00
1.270	17.46	0.12	0.151	0.010	-0.544	0.198	3.751	0.545	0.00	0.00
1.524	18.04	0.11	0.150	0.008	-0.814	0.231	4.695	0.789	0.00	0.00
2.032	19.23	0.18	0.126	0.008	-0.661	0.251	3.760	0.886	0.00	0.00
2.540	20.33	0.26	0.117	0.010	-1.049	0.195	4.556	1.243	0.00	0.00
3.048	21.30	0.22	0.095	0.010	-1.318	0.390	5.688	2.145	0.00	0.00
3.810	22.47	0.09	0.069	0.007	-2.107	0.297	9.844	2.015	0.00	0.00
5.080	23.28	0.08	0.043	0.012	-3.190	1.749	22.510	15.540	0.00	0.00
6.350	23.60	0.09	0.025	0.001	0.215	0.227	3.436	0.688	0.00	0.00
7.620	23.74	0.06	0.024	0.002	0.268	0.350	3.735	0.639	0.00	0.00
8.890	23.79	0.06	0.023	0.002	0.164	0.162	3.556	1.132	0.00	0.00
10.160	23.95	0.05	0.021	0.001	-0.063	0.156	3.480	0.487	0.00	0.00
11.430	24.05	0.04	0.022	0.002	0.340	0.192	3.555	0.445	0.00	0.00
12.700	24.18	0.05	0.023	0.002	-0.013	0.189	3.351	0.537	0.00	0.00
13.970	24.30	0.05	0.022	0.001	0.122	0.085	3.161	0.489	0.00	0.00
15.240	24.40	0.03	0.023	0.001	0.040	0.253	3.284	0.776	0.00	0.00
16.510	24.58	0.04	0.023	0.002	0.167	0.170	3.009	0.393	0.00	0.00
17.780	24.65	0.06	0.022	0.002	-0.049	0.241	3.276	0.717	0.00	0.00
19.050	24.81	0.06	0.022	0.002	0.077	0.162	3.114	0.283	0.00	0.00
20.320	24.89	0.09	0.022	0.001	0.072	0.357	3.983	0.992	0.00	0.00
21.590	25.02	0.05	0.023	0.001	-0.071	0.094	3.575	0.764	0.00	0.00
22.860	25.14	0.07	0.022	0.001	0.120	0.169	2.982	0.214	0.00	0.00
24.130	25.24	0.06	0.023	0.001	0.041	0.280	3.360	0.584	0.00	0.00
25.400	25.40	0.06	0.023	0.001	0.069	0.132	2.985	0.461	0.00	0.00

Table 62. Boundary Layer Measurements at 70.3% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	11.99	0.54	0.282	0.016	0.129	0.108	2.308	0.100	0.00	0.00
0.381	13.36	0.28	0.240	0.007	-0.043	0.110	2.498	0.178	0.00	0.00
0.508	14.45	0.22	0.209	0.007	-0.204	0.097	2.743	0.208	0.00	0.00
0.762	15.63	0.10	0.176	0.011	-0.346	0.218	3.335	0.787	0.00	0.00
1.016	16.31	0.21	0.161	0.009	-0.526	0.177	3.918	0.675	0.00	0.00
1.270	16.96	0.13	0.151	0.008	-0.570	0.273	4.041	0.946	0.00	0.00
1.524	17.57	0.10	0.143	0.010	-0.641	0.244	4.285	0.752	0.00	0.00
2.032	18.50	0.25	0.134	0.019	-0.720	0.413	4.237	1.274	0.00	0.00
2.540	19.42	0.14	0.132	0.018	-1.011	0.479	4.978	1.741	0.00	0.00
3.048	20.37	0.21	0.116	0.014	-1.324	0.513	6.068	2.930	0.00	0.00
3.810	21.60	0.16	0.093	0.015	-2.055	0.663	10.010	5.658	0.00	0.00
5.080	22.83	0.10	0.047	0.009	-2.398	0.813	13.890	6.206	0.00	0.00
6.350	23.23	0.09	0.026	0.004	-0.569	1.082	6.626	7.569	0.00	0.00
7.620	23.39	0.07	0.023	0.001	0.111	0.312	3.164	0.550	0.00	0.00
8.890	23.49	0.05	0.022	0.002	0.225	0.260	3.161	0.274	0.00	0.00
10.160	23.65	0.06	0.022	0.002	0.107	0.322	3.326	0.612	0.00	0.00
11.430	23.76	0.06	0.023	0.002	0.112	0.247	3.319	0.615	0.00	0.00
12.700	23.85	0.04	0.022	0.001	0.067	0.149	3.310	0.315	0.00	0.00
13.970	23.97	0.08	0.022	0.001	0.247	0.331	3.448	0.377	0.00	0.00
15.240	24.04	0.09	0.021	0.001	-0.028	0.136	3.558	0.383	0.00	0.00
16.510	24.22	0.05	0.023	0.002	-0.137	0.865	5.381	4.860	0.00	0.00
17.780	24.29	0.05	0.022	0.001	0.150	0.242	3.090	0.249	0.00	0.00
19.050	24.37	0.03	0.022	0.002	-0.232	0.413	3.823	1.278	0.00	0.00
20.320	24.55	0.07	0.022	0.001	0.082	0.209	3.302	0.496	0.00	0.00
21.590	24.64	0.09	0.022	0.002	0.010	0.218	2.861	0.488	0.00	0.00
22.860	24.83	0.08	0.021	0.003	0.176	0.227	3.407	0.218	0.00	0.00
24.130	24.87	0.04	0.020	0.001	0.016	0.370	4.482	1.334	0.00	0.00
25.400	25.00	0.05	0.021	0.002	0.095	0.218	3.495	0.775	0.00	0.00

Table 63. Boundary Layer Measurements at 80.0% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	12.91	0.22	0.265	0.009	0.013	0.084	2.409	0.093	0.02	0.04
0.381	14.16	0.14	0.225	0.014	-0.235	0.070	2.953	0.716	0.05	0.13
0.508	14.98	0.19	0.196	0.009	-0.329	0.114	2.997	0.365	0.02	0.04
0.762	15.95	0.14	0.170	0.006	-0.519	0.184	3.922	0.726	0.02	0.04
1.016	16.65	0.10	0.157	0.009	-0.558	0.210	3.827	0.643	0.00	0.00
1.524	17.67	0.16	0.140	0.010	-0.665	0.243	4.487	1.214	0.00	0.00
2.032	18.54	0.15	0.135	0.010	-1.059	0.233	6.014	0.848	0.00	0.00
2.540	19.30	0.16	0.123	0.007	-1.051	0.357	5.997	2.246	0.00	0.00
3.048	20.17	0.10	0.109	0.008	-1.038	0.563	5.571	3.649	0.00	0.00
3.810	21.28	0.21	0.097	0.014	-1.531	0.494	6.512	2.968	0.00	0.00
5.080	22.43	0.12	0.073	0.006	-2.660	0.738	13.640	5.568	0.00	0.00
6.350	23.05	0.12	0.047	0.009	-3.307	0.857	22.020	7.990	0.00	0.00
7.620	23.38	0.05	0.026	0.002	-0.154	0.499	4.440	2.652	0.00	0.00
8.890	23.50	0.06	0.023	0.002	0.127	0.293	3.251	0.365	0.00	0.00
10.160	23.61	0.04	0.023	0.002	0.077	0.251	3.134	0.448	0.00	0.00
11.430	23.72	0.02	0.023	0.002	0.047	0.112	3.754	0.538	0.00	0.00
12.700	23.83	0.05	0.022	0.001	0.215	0.247	3.751	0.887	0.00	0.00
13.970	23.95	0.04	0.022	0.002	0.241	0.251	4.211	0.704	0.00	0.00
15.240	24.02	0.03	0.022	0.001	0.031	0.221	3.644	0.882	0.00	0.00
16.510	24.14	0.04	0.021	0.002	0.151	0.160	3.576	0.478	0.00	0.00
17.780	24.25	0.04	0.022	0.001	0.005	0.230	3.209	0.548	0.00	0.00
19.050	24.35	0.07	0.023	0.001	0.188	0.239	3.581	1.293	0.00	0.00
20.320	24.45	0.05	0.023	0.001	-0.043	0.232	3.022	0.329	0.00	0.00
21.590	24.56	0.05	0.022	0.001	-0.060	0.214	3.022	0.452	0.00	0.00
22.860	24.70	0.02	0.022	0.001	0.010	0.231	3.273	0.395	0.00	0.00
24.130	24.80	0.08	0.023	0.001	-0.003	0.159	3.393	0.544	0.00	0.00
25.400	24.86	0.03	0.022	0.002	-0.070	0.100	3.205	0.201	0.00	0.00

Table 64. Boundary Layer Measurements at 89.7% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	13.63	0.24	0.260	0.009	-0.003	0.060	2.386	0.118	0.00	0.00
0.381	15.00	0.35	0.222	0.020	-0.410	0.091	2.986	0.287	0.03	0.09
0.508	15.88	0.15	0.192	0.003	-0.434	0.088	3.213	0.209	0.00	0.00
0.762	16.87	0.22	0.166	0.009	-0.695	0.141	4.113	0.601	0.00	0.00
1.016	17.69	0.12	0.148	0.008	-0.807	0.204	4.895	0.663	0.00	0.00
1.524	18.50	0.18	0.143	0.021	-1.096	0.366	5.922	1.274	0.00	0.00
2.032	19.14	0.19	0.146	0.017	-1.466	0.217	7.191	0.798	0.00	0.00
2.540	19.99	0.11	0.132	0.013	-1.453	0.432	6.963	1.896	0.00	0.00
3.048	20.78	0.18	0.108	0.009	-1.104	0.413	5.397	2.236	0.00	0.00
3.810	21.57	0.05	0.103	0.008	-1.618	0.441	7.313	2.385	0.00	0.00
5.080	22.91	0.13	0.073	0.015	-2.721	0.720	14.450	5.589	0.00	0.00
6.350	23.67	0.10	0.030	0.005	-0.654	0.853	5.777	3.382	0.00	0.00
7.620	23.91	0.06	0.029	0.010	-0.908	2.448	11.710	21.640	0.00	0.00
8.890	24.04	0.05	0.022	0.003	0.101	0.151	3.520	0.222	0.00	0.00
10.160	24.08	0.05	0.021	0.001	0.217	0.168	3.511	0.576	0.00	0.00
11.430	24.24	0.07	0.021	0.002	0.030	0.194	3.414	0.318	0.00	0.00
12.700	24.31	0.09	0.021	0.003	0.104	0.248	3.185	0.244	0.00	0.00
13.970	24.43	0.04	0.023	0.002	-0.001	0.262	3.098	0.266	0.00	0.00
15.240	24.48	0.03	0.022	0.002	-0.074	0.248	3.039	0.390	0.00	0.00
16.510	24.58	0.07	0.022	0.001	0.024	0.220	3.277	0.532	0.00	0.00
17.780	24.67	0.06	0.022	0.001	0.154	0.123	3.274	0.531	0.00	0.00
19.050	24.69	0.04	0.022	0.001	-0.065	0.289	3.454	0.567	0.00	0.00
20.320	24.80	0.04	0.022	0.001	0.117	0.333	3.936	0.561	0.00	0.00
21.590	24.84	0.03	0.022	0.001	-0.072	0.082	3.565	0.497	0.00	0.00
22.860	24.99	0.05	0.022	0.001	0.022	0.241	3.793	0.689	0.00	0.00
24.130	25.04	0.04	0.023	0.002	-0.032	0.207	3.387	0.483	0.00	0.00
25.400	25.13	0.04	0.023	0.001	-0.020	0.175	3.751	0.630	0.00	0.00

Table 65. Boundary Layer Measurements at 98.4% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	16.71	0.46	0.211	0.015	-0.176	0.164	2.590	0.319	0.00	0.00
0.381	18.07	0.40	0.180	0.014	-0.598	0.092	3.698	0.256	0.00	0.00
0.508	18.98	0.38	0.164	0.016	-1.005	0.264	5.368	1.265	0.02	0.04
0.762	20.04	0.28	0.143	0.016	-1.309	0.374	7.014	1.281	0.00	0.00
1.016	20.61	0.12	0.127	0.006	-1.350	0.227	7.687	1.409	0.00	0.00
1.524	21.30	0.38	0.121	0.026	-1.584	0.677	8.923	3.257	0.00	0.00
2.032	22.03	0.27	0.111	0.020	-1.683	0.779	9.729	3.936	0.00	0.00
2.540	22.49	0.29	0.109	0.024	-1.694	0.775	9.044	3.992	0.00	0.00
3.810	23.79	0.11	0.083	0.009	-2.196	0.638	11.820	5.334	0.00	0.00
5.080	24.67	0.16	0.061	0.015	-2.538	0.859	13.010	6.249	0.00	0.00
6.350	25.20	0.06	0.027	0.003	-0.446	0.484	4.255	1.070	0.00	0.00
7.620	25.21	0.08	0.026	0.004	-0.428	0.699	4.437	1.966	0.00	0.00
8.890	25.21	0.04	0.024	0.001	-0.084	0.307	3.863	0.717	0.00	0.00
10.160	25.18	0.07	0.022	0.002	0.144	0.176	2.949	0.297	0.00	0.00
11.430	25.20	0.12	0.022	0.002	0.101	0.318	3.605	0.747	0.00	0.00
12.700	25.18	0.06	0.022	0.001	0.191	0.238	3.580	0.299	0.00	0.00
13.970	25.16	0.04	0.022	0.001	0.073	0.167	3.075	0.313	0.00	0.00
15.240	25.18	0.05	0.022	0.002	0.011	0.203	3.618	0.779	0.00	0.00
16.510	25.19	0.05	0.021	0.002	0.138	0.328	3.733	0.603	0.00	0.00
17.780	25.24	0.07	0.021	0.002	0.085	0.187	3.416	0.322	0.00	0.00
19.050	25.26	0.06	0.021	0.003	0.084	0.199	3.401	0.551	0.00	0.00
20.320	25.27	0.05	0.022	0.001	0.181	0.227	3.256	0.438	0.00	0.00
21.590	25.32	0.06	0.022	0.002	0.123	0.192	3.253	0.538	0.00	0.00
22.860	25.36	0.05	0.022	0.002	-0.061	0.146	3.654	0.196	0.00	0.00
24.130	25.39	0.05	0.021	0.001	0.214	0.241	3.296	0.456	0.00	0.00
25.400	25.41	0.07	0.022	0.002	0.138	0.199	3.465	0.384	0.00	0.00

Table 66. Boundary Layer Measurements at 10.4% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.508	40.08	0.22	0.042	0.011	-3.306	0.593	18.470	5.081	0.00	0.00
1.270	40.06	0.10	0.020	0.003	-0.115	0.181	4.235	0.671	0.00	0.00
2.540	39.85	0.17	0.020	0.002	-0.303	0.369	4.368	0.844	0.00	0.00
3.810	39.63	0.08	0.020	0.000	-0.493	0.303	3.680	1.263	0.00	0.00
5.080	39.48	0.12	0.021	0.002	-0.278	0.262	3.505	0.395	0.00	0.00
6.350	39.23	0.06	0.021	0.001	-0.051	0.289	3.270	1.010	0.00	0.00
7.620	39.02	0.11	0.021	0.001	-0.124	0.166	3.299	0.501	0.00	0.00
8.890	38.84	0.08	0.020	0.002	0.013	0.134	3.487	0.489	0.00	0.00
10.160	38.65	0.11	0.019	0.002	0.259	0.259	4.131	0.708	0.00	0.00
11.430	38.52	0.07	0.019	0.001	0.130	0.388	4.337	0.579	0.00	0.00
12.700	38.35	0.09	0.019	0.001	-0.030	0.404	4.273	0.783	0.00	0.00
13.970	38.22	0.10	0.018	0.002	-0.130	0.364	4.053	0.761	0.00	0.00
15.240	38.05	0.08	0.019	0.001	-0.042	0.353	3.710	0.704	0.00	0.00
16.510	37.92	0.08	0.018	0.001	-0.202	0.180	3.094	0.665	0.00	0.00
17.780	37.79	0.04	0.019	0.002	-0.186	0.275	3.061	0.255	0.00	0.00

Table 67. Boundary Layer Measurements at 19.7% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.508	41.07	0.21	0.021	0.001	0.240	0.090	2.986	0.430	0.00	0.00
1.270	41.62	0.04	0.018	0.001	-0.104	0.181	3.171	0.305	0.00	0.00
2.540	41.25	0.03	0.019	0.001	0.213	0.101	3.018	0.816	0.00	0.00
3.810	41.00	0.07	0.020	0.001	0.526	0.115	3.584	0.566	0.00	0.00
5.080	40.71	0.10	0.019	0.001	0.576	0.196	4.029	0.624	0.00	0.00
6.350	40.51	0.08	0.018	0.001	0.412	0.444	4.434	0.709	0.00	0.00
7.620	40.27	0.06	0.017	0.001	0.253	0.126	4.360	0.595	0.00	0.00
8.890	40.07	0.07	0.017	0.001	-0.102	0.475	4.593	0.737	0.00	0.00
10.160	39.89	0.08	0.018	0.002	-0.134	0.193	3.721	0.446	0.00	0.00
11.430	39.65	0.05	0.019	0.001	0.041	0.303	3.092	0.299	0.00	0.00
12.700	39.51	0.10	0.018	0.000	-0.162	0.177	3.086	0.617	0.00	0.00
13.970	39.23	0.05	0.019	0.001	0.294	0.223	2.866	0.278	0.00	0.00
15.240	38.98	0.07	0.019	0.001	0.404	0.284	3.621	0.228	0.00	0.00
16.510	38.81	0.08	0.018	0.001	0.451	0.262	3.953	0.566	0.00	0.00
17.780	38.64	0.05	0.017	0.001	0.587	0.108	4.302	1.098	0.00	0.00
19.050	38.50	0.06	0.017	0.001	0.263	0.261	4.257	0.544	0.00	0.00
20.320	38.32	0.04	0.016	0.001	0.311	0.215	4.470	0.892	0.00	0.00
21.590	38.12	0.05	0.018	0.001	0.011	0.206	4.132	0.949	0.00	0.00
22.860	38.03	0.07	0.018	0.002	-0.005	0.462	3.684	0.951	0.00	0.00
24.130	37.80	0.10	0.017	0.001	-0.080	0.238	2.932	0.548	0.00	0.00
25.400	37.71	0.06	0.018	0.001	0.331	0.266	3.369	1.212	0.00	0.00

Table 68. Boundary Layer Measurements at 30.1% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	18.22	2.42	0.233	0.059	-0.394	0.505	3.303	0.650	0.02	0.04
0.381	25.49	2.35	0.186	0.096	-0.818	0.353	4.348	1.221	0.03	0.05
0.508	33.45	2.60	0.105	0.045	-2.612	0.673	14.750	5.136	0.00	0.00
1.270	41.08	0.09	0.019	0.001	0.544	0.234	2.972	0.513	0.00	0.00
2.540	40.83	0.06	0.018	0.001	0.656	0.177	3.570	0.483	0.00	0.00
3.810	40.62	0.03	0.018	0.001	0.669	0.192	4.051	0.405	0.00	0.00
5.080	40.41	0.04	0.017	0.001	0.830	0.112	5.303	0.481	0.00	0.00
6.350	40.13	0.05	0.016	0.001	0.232	0.571	5.195	1.107	0.00	0.00
7.620	39.94	0.05	0.016	0.001	-0.115	0.321	4.141	0.785	0.00	0.00
8.890	39.71	0.08	0.017	0.001	-0.118	0.268	3.194	0.785	0.00	0.00
10.160	39.50	0.05	0.018	0.001	0.126	0.185	2.864	0.354	0.00	0.00
11.430	39.16	0.11	0.019	0.001	0.456	0.204	3.118	0.354	0.00	0.00
12.700	38.98	0.09	0.018	0.001	0.331	0.279	3.115	0.447	0.00	0.00
13.970	38.72	0.06	0.017	0.001	0.602	0.379	4.211	0.364	0.00	0.00
15.240	38.52	0.05	0.016	0.001	0.396	0.372	4.515	0.764	0.00	0.00
16.510	38.29	0.07	0.016	0.001	0.102	0.312	4.192	1.192	0.00	0.00
17.780	38.11	0.09	0.017	0.002	0.053	0.051	3.480	0.350	0.00	0.00
19.050	37.94	0.04	0.017	0.001	0.005	0.141	2.985	0.304	0.00	0.00
20.320	37.73	0.07	0.018	0.001	-0.061	0.309	2.911	1.045	0.00	0.00
21.590	37.52	0.08	0.018	0.001	0.138	0.211	2.932	0.333	0.00	0.00
22.860	37.35	0.10	0.018	0.002	0.451	0.207	3.446	0.424	0.00	0.00
24.130	37.17	0.11	0.018	0.001	0.559	0.225	3.597	0.679	0.00	0.00
25.400	36.93	0.04	0.017	0.001	0.422	0.176	4.041	0.629	0.00	0.00

Table 69. Boundary Layer Measurements at 40.5% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	5.03	0.41	0.392	0.031	0.577	0.135	3.259	0.428	0.05	0.06
0.381	10.66	0.78	0.269	0.026	0.385	0.187	3.147	0.312	0.00	0.00
0.508	16.76	0.78	0.200	0.047	-0.188	0.340	3.244	0.733	0.00	0.00
0.635	23.86	0.53	0.134	0.024	-0.325	0.905	4.507	2.753	0.00	0.00
0.762	29.32	1.16	0.087	0.011	-0.093	0.241	3.071	0.281	0.00	0.00
0.889	33.84	0.92	0.059	0.009	-0.317	0.193	3.340	0.563	0.00	0.00
1.016	37.25	0.49	0.035	0.006	-0.328	0.275	3.114	0.430	0.00	0.00
1.270	39.24	0.19	0.020	0.001	0.095	0.390	3.051	0.449	0.00	0.00
2.540	39.51	0.16	0.019	0.001	-0.250	0.817	5.246	5.041	0.00	0.00
3.810	39.28	0.22	0.018	0.001	0.128	0.304	2.812	0.301	0.00	0.00
5.080	39.04	0.24	0.018	0.001	0.263	0.146	3.171	0.708	0.00	0.00
6.350	38.75	0.26	0.018	0.001	-0.029	1.037	6.353	6.775	0.00	0.00
7.620	38.57	0.21	0.017	0.001	0.391	0.293	3.700	0.395	0.00	0.00
8.890	38.40	0.24	0.017	0.001	0.412	0.266	4.270	0.884	0.00	0.00
10.160	38.12	0.22	0.018	0.002	0.060	0.262	3.648	1.066	0.00	0.00
11.430	37.90	0.25	0.017	0.002	0.235	0.294	3.462	1.403	0.00	0.00
12.700	37.68	0.23	0.018	0.001	0.266	0.186	3.014	0.635	0.00	0.00
13.970	37.50	0.26	0.018	0.001	0.210	0.530	3.325	1.027	0.00	0.00
15.240	37.23	0.24	0.019	0.002	0.455	0.271	3.524	0.714	0.00	0.00
16.510	36.97	0.22	0.018	0.001	0.419	0.316	4.249	0.745	0.00	0.00
17.780	36.75	0.23	0.018	0.001	0.217	0.398	3.861	0.768	0.00	0.00
19.050	36.50	0.14	0.018	0.001	-0.044	0.177	3.390	0.357	0.00	0.00
20.320	36.35	0.20	0.018	0.002	0.273	0.325	3.789	0.551	0.00	0.00
21.590	36.11	0.17	0.019	0.001	0.164	0.224	3.004	0.576	0.00	0.00
22.860	35.88	0.27	0.019	0.001	0.183	0.186	2.758	0.354	0.00	0.00
24.130	35.68	0.23	0.017	0.001	0.337	0.296	2.953	0.537	0.00	0.00
25.400	35.50	0.27	0.019	0.001	0.281	0.354	3.706	1.082	0.00	0.00

Table 70. Boundary Layer Measurements at 49.8% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.127	-0.09	0.01	-4.911	1.062	0.212	1.921	28.270	23.620	60.33	1.87
0.254	0.86	0.34	1.110	0.354	1.997	2.806	32.790	49.420	14.05	7.49
0.381	2.66	0.31	0.506	0.037	0.825	0.847	7.055	9.307	0.67	0.23
0.508	5.73	0.71	0.387	0.032	0.371	0.312	3.528	1.521	0.07	0.09
0.635	10.57	1.30	0.267	0.017	0.189	0.144	3.383	0.661	0.00	0.00
0.762	16.14	1.29	0.212	0.014	-0.414	0.291	3.750	0.621	0.02	0.04
0.889	21.79	1.06	0.157	0.021	-0.940	0.555	5.051	1.852	0.00	0.00
1.016	26.89	0.57	0.125	0.009	-1.589	0.510	8.564	2.515	0.00	0.00
1.143	31.04	0.47	0.098	0.019	-1.579	0.978	8.644	6.214	0.00	0.00
1.270	34.71	0.50	0.064	0.014	-1.849	0.734	8.998	4.395	0.00	0.00
1.397	36.80	0.13	0.040	0.007	-2.459	1.265	14.940	9.858	0.00	0.00
1.524	37.71	0.13	0.032	0.012	-3.129	2.673	24.450	20.190	0.00	0.00
1.778	38.33	0.05	0.017	0.002	0.228	0.317	4.460	1.131	0.00	0.00
2.540	38.34	0.08	0.016	0.002	0.341	0.170	4.735	1.189	0.00	0.00
3.810	38.07	0.08	0.017	0.001	-0.010	0.172	3.487	0.419	0.00	0.00
5.080	37.87	0.08	0.017	0.001	0.022	0.235	3.151	0.844	0.00	0.00
6.350	37.51	0.07	0.019	0.001	0.346	0.136	2.798	0.235	0.00	0.00
7.620	37.29	0.07	0.018	0.002	0.580	0.122	3.421	0.239	0.00	0.00
8.890	37.08	0.07	0.018	0.001	0.491	0.252	3.617	0.318	0.00	0.00
10.160	36.78	0.06	0.017	0.001	0.350	0.300	4.277	0.648	0.00	0.00
11.430	36.55	0.09	0.017	0.001	0.304	0.229	4.299	0.524	0.00	0.00
12.700	36.31	0.03	0.018	0.001	0.279	0.375	3.747	1.679	0.00	0.00
13.970	36.02	0.08	0.018	0.001	0.279	0.171	3.144	1.127	0.00	0.00
15.240	35.82	0.08	0.018	0.001	0.439	0.201	2.938	0.401	0.00	0.00
16.510	35.60	0.07	0.019	0.001	0.533	0.259	3.475	0.290	0.00	0.00
17.780	35.32	0.05	0.018	0.002	0.713	0.320	4.915	1.341	0.00	0.00
19.050	35.12	0.13	0.017	0.001	0.482	0.308	4.508	0.928	0.00	0.00
20.320	34.92	0.09	0.018	0.002	0.252	0.174	3.994	0.826	0.00	0.00
21.590	34.70	0.07	0.019	0.001	0.053	0.180	3.123	0.563	0.00	0.00
22.860	34.47	0.12	0.019	0.001	0.344	0.345	3.617	1.106	0.00	0.00
24.130	34.21	0.13	0.020	0.001	0.275	0.234	3.566	0.778	0.00	0.00
25.400	33.98	0.11	0.019	0.001	0.414	0.308	3.413	0.709	0.00	0.00
26.670	33.72	0.14	0.020	0.001	0.354	0.343	3.977	0.784	0.00	0.00
27.940	33.57	0.08	0.018	0.002	0.111	0.181	3.867	0.609	0.00	0.00
29.210	33.35	0.08	0.019	0.002	0.104	0.129	3.589	0.542	0.00	0.00
30.480	33.18	0.11	0.020	0.002	0.397	0.276	3.670	0.984	0.00	0.00

Table 71. Boundary Layer Measurements at 55.0% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	0.80	0.35	6.464	3.385	0.605	0.209	3.756	1.312	46.73	3.56
0.381	3.16	0.88	1.378	0.304	0.869	0.335	4.949	1.236	21.02	6.86
0.508	5.55	0.45	0.781	0.073	0.923	0.508	5.565	1.825	7.10	1.99
0.635	9.24	0.93	0.590	0.060	0.874	0.363	4.461	1.126	2.27	0.96
0.762	14.46	1.20	0.446	0.047	0.129	0.219	2.698	0.342	1.05	0.71
0.889	20.10	1.05	0.306	0.030	-0.682	0.149	3.345	0.478	0.15	0.17
1.016	24.27	0.61	0.216	0.019	-1.476	0.354	6.014	0.916	0.07	0.05
1.143	28.03	1.10	0.138	0.056	-1.766	0.659	8.709	3.164	0.03	0.09
1.270	30.43	1.23	0.122	0.069	-2.055	0.818	9.896	4.438	0.00	0.00
1.397	33.45	0.52	0.073	0.024	-2.020	1.813	12.750	13.160	0.00	0.00
1.524	35.29	0.61	0.052	0.007	-1.574	1.082	10.980	7.231	0.00	0.00
1.778	36.97	0.38	0.045	0.007	-1.017	1.032	7.210	6.546	0.00	0.00
2.032	37.72	0.25	0.035	0.005	-0.067	0.113	3.165	0.522	0.00	0.00
2.540	37.83	0.10	0.028	0.003	-0.024	0.130	2.911	0.463	0.00	0.00
3.810	37.49	0.06	0.020	0.002	-0.184	0.525	3.837	2.894	0.00	0.00
5.080	37.14	0.04	0.019	0.001	0.452	0.295	3.631	0.503	0.00	0.00
6.350	36.79	0.13	0.017	0.002	0.079	0.299	3.782	0.523	0.00	0.00
7.620	36.54	0.07	0.017	0.001	0.018	0.399	3.596	0.743	0.00	0.00
8.890	36.22	0.11	0.019	0.001	0.273	0.440	3.695	1.347	0.00	0.00
10.160	36.02	0.06	0.019	0.001	0.185	0.229	2.945	0.361	0.00	0.00
11.430	35.74	0.10	0.020	0.001	0.413	0.154	3.374	0.581	0.00	0.00
12.700	35.51	0.07	0.019	0.002	0.309	0.126	3.315	0.655	0.00	0.00
13.970	35.21	0.07	0.018	0.002	0.296	0.277	4.507	0.804	0.00	0.00
15.240	35.04	0.09	0.018	0.002	0.229	0.216	4.000	0.426	0.00	0.00
16.510	34.76	0.06	0.018	0.001	0.033	0.352	3.747	0.752	0.00	0.00
17.780	34.54	0.06	0.020	0.002	0.097	0.268	3.247	0.775	0.00	0.00
19.050	34.29	0.03	0.020	0.001	0.200	0.074	2.851	0.353	0.00	0.00
20.320	34.05	0.11	0.020	0.001	0.394	0.079	3.179	0.456	0.00	0.00
21.590	33.80	0.10	0.019	0.002	0.431	0.279	3.618	0.650	0.00	0.00
22.860	33.60	0.05	0.019	0.002	0.253	0.226	3.962	0.732	0.00	0.00
24.130	33.42	0.02	0.019	0.002	-0.084	0.224	3.596	0.408	0.00	0.00
25.400	33.16	0.06	0.019	0.001	0.062	0.134	3.200	0.662	0.00	0.00
26.670	32.96	0.08	0.020	0.001	0.100	0.338	3.157	0.902	0.00	0.00
27.940	32.74	0.05	0.020	0.001	-0.126	0.899	5.707	6.807	0.00	0.00
29.210	32.55	0.04	0.019	0.001	0.532	0.233	3.562	0.659	0.00	0.00
30.480	32.34	0.08	0.018	0.001	0.529	0.348	4.360	1.337	0.00	0.00

Table 72. Boundary Layer Measurements at 60.2% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	13.96	0.42	0.507	0.012	0.197	0.073	2.312	0.080	0.98	0.32
0.381	17.99	0.52	0.410	0.025	-0.300	0.030	2.221	0.080	0.27	0.23
0.508	21.52	0.45	0.329	0.012	-0.764	0.096	2.878	0.219	0.13	0.14
0.635	24.44	0.53	0.269	0.013	-1.276	0.138	4.236	0.553	0.07	0.13
0.762	26.65	0.41	0.221	0.020	-1.675	0.125	5.831	0.689	0.03	0.05
0.889	28.36	0.46	0.194	0.017	-1.972	0.199	7.407	1.031	0.02	0.04
1.016	30.08	0.23	0.159	0.008	-2.470	0.184	10.690	1.264	0.00	0.00
1.143	31.47	0.12	0.125	0.012	-2.568	0.388	12.260	2.718	0.00	0.00
1.270	32.37	0.20	0.101	0.010	-2.038	0.383	9.896	2.608	0.00	0.00
1.524	33.74	0.24	0.077	0.013	-1.973	0.837	10.940	3.822	0.00	0.00
1.778	34.49	0.23	0.063	0.009	-1.304	0.658	8.843	3.459	0.00	0.00
2.540	35.44	0.05	0.044	0.004	-0.200	0.755	6.423	2.459	0.00	0.00
3.810	35.61	0.12	0.025	0.002	0.192	0.240	3.327	0.680	0.00	0.00
5.080	35.48	0.05	0.020	0.001	0.306	0.258	3.354	0.399	0.00	0.00
6.350	35.29	0.08	0.018	0.001	0.435	0.260	4.070	0.884	0.00	0.00
7.620	35.19	0.07	0.018	0.001	0.542	0.472	4.718	0.874	0.00	0.00
8.890	34.96	0.06	0.018	0.001	0.101	0.466	4.413	0.956	0.00	0.00
10.160	34.78	0.08	0.019	0.001	0.055	0.246	3.608	0.852	0.00	0.00
11.430	34.62	0.09	0.019	0.001	0.071	0.451	3.609	1.109	0.00	0.00
12.700	34.40	0.07	0.019	0.001	0.293	0.251	3.159	0.619	0.00	0.00
13.970	34.15	0.07	0.020	0.001	0.311	0.299	2.849	0.535	0.00	0.00
15.240	33.98	0.04	0.020	0.001	0.369	0.158	3.250	0.463	0.00	0.00
16.510	33.75	0.08	0.019	0.003	0.465	0.303	3.962	0.735	0.00	0.00
17.780	33.57	0.05	0.018	0.002	0.274	0.102	3.818	0.235	0.00	0.00
19.050	33.35	0.04	0.019	0.001	0.100	0.294	3.713	0.386	0.00	0.00
20.320	33.09	0.06	0.019	0.001	0.206	0.430	3.392	1.082	0.00	0.00
21.590	32.92	0.03	0.020	0.002	0.303	0.231	2.874	0.437	0.00	0.00
22.860	32.69	0.05	0.019	0.001	0.449	0.231	3.365	0.790	0.00	0.00
24.130	32.50	0.08	0.018	0.002	0.449	0.087	3.607	0.532	0.00	0.00
25.400	32.29	0.06	0.019	0.002	0.693	0.217	4.384	0.666	0.00	0.00
26.670	32.11	0.10	0.018	0.002	0.378	0.450	4.228	1.298	0.00	0.00
27.940	31.88	0.06	0.018	0.002	0.080	0.426	3.633	0.558	0.00	0.00
29.210	31.72	0.09	0.018	0.001	0.127	0.203	3.320	0.708	0.00	0.00
30.480	31.55	0.07	0.019	0.001	0.364	0.211	3.749	0.949	0.00	0.00

Table 73. Boundary Layer Measurements at 70.6% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	17.97	1.11	0.302	0.021	0.029	0.066	2.296	0.096	0.00	0.00
0.381	21.70	0.68	0.223	0.017	-0.284	0.089	2.665	0.142	0.00	0.00
0.508	23.47	0.47	0.190	0.010	-0.366	0.104	3.010	0.251	0.00	0.00
0.635	24.67	0.41	0.178	0.014	-0.383	0.186	2.913	0.454	0.00	0.00
0.762	25.88	0.27	0.160	0.005	-0.362	0.052	2.827	0.186	0.00	0.00
0.889	26.63	0.39	0.160	0.012	-0.625	0.238	3.361	0.766	0.00	0.00
1.016	27.54	0.29	0.150	0.015	-0.674	0.284	3.394	0.943	0.00	0.00
1.270	28.64	0.31	0.143	0.022	-0.896	0.377	3.748	1.435	0.00	0.00
1.524	29.68	0.38	0.132	0.018	-1.210	0.206	4.671	0.871	0.00	0.00
1.778	30.91	0.18	0.109	0.005	-1.271	0.183	4.620	0.611	0.00	0.00
2.032	31.54	0.22	0.098	0.008	-1.547	0.184	5.986	0.807	0.00	0.00
2.540	32.58	0.07	0.077	0.004	-2.236	0.343	10.510	2.832	0.00	0.00
3.810	33.75	0.19	0.038	0.015	-1.142	1.484	9.080	7.341	0.00	0.00
5.080	33.88	0.11	0.024	0.002	0.351	0.276	3.664	0.663	0.00	0.00
6.350	33.76	0.05	0.020	0.002	0.395	0.156	3.472	0.291	0.00	0.00
7.620	33.55	0.06	0.019	0.002	0.125	0.302	3.904	0.453	0.00	0.00
8.890	33.38	0.05	0.018	0.001	-0.078	0.251	3.622	0.364	0.00	0.00
10.160	33.21	0.03	0.018	0.001	0.106	0.167	3.320	0.539	0.00	0.00
11.430	33.02	0.06	0.018	0.001	0.169	0.162	2.726	0.484	0.00	0.00
12.700	32.80	0.08	0.019	0.001	0.185	0.155	3.004	0.266	0.00	0.00
13.970	32.58	0.05	0.018	0.001	0.679	0.210	3.821	0.733	0.00	0.00
15.240	32.41	0.07	0.017	0.001	0.508	0.217	3.769	0.414	0.00	0.00
16.510	32.24	0.04	0.017	0.001	0.374	0.235	4.539	0.344	0.00	0.00
17.780	32.05	0.04	0.017	0.002	0.307	0.367	4.018	0.481	0.00	0.00
19.050	31.85	0.07	0.018	0.001	0.292	0.237	3.760	0.907	0.00	0.00
20.320	31.68	0.06	0.018	0.001	0.039	0.161	2.770	0.394	0.00	0.00
21.590	31.50	0.07	0.019	0.002	0.527	0.353	4.017	1.842	0.00	0.00
22.860	31.37	0.05	0.019	0.001	0.518	0.079	3.212	0.527	0.00	0.00
24.130	31.09	0.03	0.018	0.001	0.425	0.281	3.800	0.384	0.00	0.00
25.400	30.95	0.07	0.016	0.001	0.451	0.497	4.277	0.801	0.00	0.00
26.670	30.78	0.06	0.017	0.001	0.086	0.186	4.085	0.336	0.00	0.00
27.940	30.63	0.06	0.016	0.001	-0.107	0.284	3.756	0.546	0.00	0.00
29.210	30.48	0.06	0.018	0.002	-0.002	0.173	3.746	1.084	0.00	0.00
30.480	30.33	0.07	0.018	0.001	-0.006	0.220	3.039	0.350	0.00	0.00

Table 74. Boundary Layer Measurements at 80.0% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	11.36	1.15	0.469	0.082	0.414	0.094	2.628	0.104	0.12	0.12
0.381	16.77	0.56	0.293	0.028	-0.111	0.031	2.364	0.065	0.00	0.00
0.508	19.69	0.39	0.217	0.007	-0.340	0.121	2.847	0.257	0.00	0.00
0.635	21.46	0.30	0.181	0.007	-0.308	0.089	2.978	0.176	0.00	0.00
0.762	22.31	0.34	0.169	0.014	-0.319	0.177	3.151	0.619	0.00	0.00
0.889	23.17	0.27	0.155	0.006	-0.393	0.164	3.327	0.520	0.00	0.00
1.016	23.93	0.28	0.144	0.004	-0.312	0.116	3.111	0.323	0.00	0.00
1.270	25.14	0.28	0.136	0.003	-0.402	0.118	3.202	0.557	0.00	0.00
1.524	26.15	0.23	0.128	0.002	-0.445	0.139	3.100	0.497	0.00	0.00
1.778	27.11	0.15	0.121	0.005	-0.445	0.108	2.787	0.313	0.00	0.00
2.032	28.15	0.16	0.108	0.004	-0.709	0.145	3.230	0.427	0.00	0.00
2.540	29.37	0.24	0.095	0.004	-1.085	0.072	4.134	0.277	0.00	0.00
3.048	30.45	0.42	0.078	0.008	-1.431	0.267	5.881	1.483	0.00	0.00
3.810	31.42	0.11	0.057	0.005	-2.001	0.132	9.568	1.282	0.00	0.00
5.080	32.12	0.09	0.034	0.006	-1.818	1.016	13.740	5.834	0.00	0.00
6.350	32.19	0.06	0.022	0.002	0.549	0.228	4.234	0.703	0.00	0.00
7.620	32.03	0.10	0.020	0.002	0.106	0.343	3.528	0.492	0.00	0.00
8.890	31.92	0.08	0.019	0.002	-0.030	0.274	3.439	0.267	0.00	0.00
10.160	31.69	0.11	0.019	0.001	0.065	0.246	2.991	0.332	0.00	0.00
11.430	31.51	0.09	0.019	0.003	-0.026	0.439	3.674	1.941	0.00	0.00
12.700	31.28	0.09	0.019	0.001	0.468	0.267	3.420	1.065	0.00	0.00
13.970	31.16	0.08	0.018	0.002	0.590	0.550	4.454	2.037	0.00	0.00
15.240	31.00	0.05	0.017	0.001	0.392	0.268	3.922	0.351	0.00	0.00
16.510	30.82	0.07	0.017	0.001	0.120	0.210	4.389	0.379	0.00	0.00
17.780	30.64	0.05	0.017	0.001	0.000	0.321	4.236	0.968	0.00	0.00
19.050	30.54	0.05	0.018	0.002	0.073	0.259	3.799	0.373	0.00	0.00
20.320	30.38	0.04	0.018	0.001	0.168	0.277	3.708	0.692	0.00	0.00
21.590	30.22	0.05	0.019	0.001	0.057	0.222	3.162	0.857	0.00	0.00
22.860	30.05	0.06	0.019	0.001	0.290	0.297	3.116	0.278	0.00	0.00
24.130	29.91	0.07	0.021	0.002	-0.421	1.403	7.532	10.820	0.00	0.00
25.400	29.73	0.07	0.019	0.001	0.147	0.182	3.981	0.953	0.00	0.00
26.670	29.60	0.06	0.019	0.001	0.296	0.214	3.764	0.504	0.00	0.00
27.940	29.46	0.08	0.019	0.001	0.183	0.187	3.667	0.673	0.00	0.00
29.210	29.31	0.04	0.018	0.001	0.011	0.113	3.288	0.456	0.00	0.00
30.480	29.25	0.05	0.019	0.001	0.205	0.126	3.271	0.489	0.00	0.00

Table 75. Boundary Layer Measurements at 90.3% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	7.49	0.28	0.504	0.031	0.613	0.100	3.134	0.343	0.30	0.57
0.381	10.76	0.66	0.386	0.023	0.365	0.068	2.560	0.155	0.07	0.17
0.508	13.01	0.55	0.314	0.018	0.131	0.091	2.496	0.070	0.00	0.00
0.635	14.69	0.47	0.272	0.015	-0.058	0.083	2.520	0.134	0.02	0.04
0.762	15.67	0.33	0.244	0.009	-0.090	0.076	2.673	0.165	0.00	0.00
0.889	16.62	0.39	0.229	0.016	-0.154	0.127	2.738	0.202	0.00	0.00
1.016	17.42	0.28	0.212	0.012	-0.174	0.077	2.822	0.118	0.00	0.00
1.143	18.16	0.41	0.198	0.010	-0.202	0.074	2.915	0.177	0.00	0.00
1.270	18.78	0.23	0.188	0.007	-0.280	0.091	3.112	0.397	0.00	0.00
1.524	19.83	0.28	0.176	0.007	-0.289	0.075	3.033	0.148	0.00	0.00
1.778	20.70	0.24	0.165	0.009	-0.387	0.121	3.259	0.365	0.00	0.00
2.032	21.74	0.26	0.152	0.004	-0.454	0.144	3.354	0.565	0.00	0.00
2.540	23.24	0.26	0.140	0.008	-0.633	0.210	4.053	1.375	0.00	0.00
3.048	24.44	0.29	0.125	0.008	-0.736	0.281	4.009	1.303	0.00	0.00
3.556	25.68	0.28	0.109	0.009	-0.691	0.079	3.370	0.262	0.00	0.00
4.064	26.74	0.29	0.094	0.011	-1.033	0.224	4.396	0.656	0.00	0.00
4.572	27.60	0.36	0.080	0.010	-1.485	0.286	6.693	1.757	0.00	0.00
5.080	28.29	0.18	0.067	0.007	-1.856	0.387	8.749	2.405	0.00	0.00
5.588	28.71	0.20	0.057	0.010	-2.012	0.688	10.860	4.842	0.00	0.00
6.350	29.18	0.12	0.035	0.004	-0.916	0.526	5.537	2.249	0.00	0.00
7.620	29.41	0.05	0.026	0.005	-0.340	0.711	4.450	1.820	0.00	0.00
8.890	29.35	0.05	0.021	0.001	0.014	0.097	3.174	0.288	0.00	0.00
10.160	29.32	0.07	0.020	0.002	0.214	0.121	3.166	0.396	0.00	0.00
11.430	29.17	0.07	0.020	0.001	0.051	0.310	3.258	0.560	0.00	0.00
12.700	29.08	0.03	0.020	0.002	0.069	0.209	2.922	0.246	0.00	0.00
13.970	28.96	0.06	0.020	0.001	0.057	0.219	2.682	0.384	0.00	0.00
15.240	28.88	0.05	0.020	0.002	0.366	0.188	3.160	0.461	0.00	0.00
16.510	28.68	0.07	0.019	0.002	0.398	0.262	3.582	1.120	0.00	0.00
17.780	28.61	0.05	0.020	0.002	0.363	0.178	3.395	0.464	0.00	0.00
19.050	28.52	0.05	0.019	0.002	0.431	0.283	4.232	1.359	0.00	0.00
20.320	28.43	0.08	0.018	0.002	0.308	0.198	3.741	0.432	0.00	0.00
21.590	28.32	0.04	0.019	0.001	0.095	0.382	4.407	1.675	0.00	0.00
22.860	28.23	0.08	0.020	0.002	0.208	0.256	4.116	0.561	0.00	0.00
24.130	28.15	0.07	0.019	0.002	0.048	0.337	3.746	0.320	0.00	0.00
25.400	28.09	0.04	0.019	0.002	0.032	0.190	3.801	0.232	0.00	0.00
26.670	27.96	0.07	0.020	0.002	0.011	0.168	3.074	0.358	0.00	0.00
27.940	27.88	0.06	0.020	0.001	0.052	0.291	3.034	0.869	0.00	0.00
29.210	27.78	0.07	0.019	0.002	0.034	0.188	2.810	0.506	0.00	0.00
30.480	27.70	0.05	0.020	0.002	0.152	0.239	2.930	0.457	0.00	0.00

Table 76. Boundary Layer Measurements at 97.6% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
0.254	3.65	0.56	0.758	0.084	0.864	0.157	3.631	0.303	4.18	1.49
0.381	5.96	0.32	0.530	0.026	0.484	0.118	3.086	0.348	0.80	0.25
0.508	7.11	0.15	0.458	0.014	0.385	0.072	3.165	0.166	0.47	0.16
0.762	8.62	0.29	0.375	0.008	0.304	0.107	3.021	0.219	0.05	0.06
1.016	9.78	0.26	0.349	0.007	0.235	0.072	2.762	0.100	0.02	0.04
1.270	10.97	0.23	0.334	0.005	0.183	0.047	2.731	0.146	0.00	0.00
1.524	11.86	0.20	0.316	0.011	0.098	0.106	2.713	0.111	0.02	0.04
1.778	12.90	0.26	0.297	0.014	-0.013	0.111	2.638	0.218	0.03	0.09
2.032	14.04	0.32	0.275	0.010	-0.043	0.050	2.555	0.053	0.00	0.00
2.286	15.00	0.32	0.254	0.007	-0.156	0.060	2.663	0.118	0.00	0.00
2.540	16.00	0.24	0.234	0.004	-0.241	0.046	2.829	0.184	0.00	0.00
3.048	17.65	0.23	0.206	0.006	-0.438	0.136	3.131	0.286	0.00	0.00
3.556	19.21	0.26	0.181	0.010	-0.525	0.155	3.423	0.490	0.00	0.00
4.064	20.59	0.27	0.160	0.010	-0.692	0.281	3.965	1.124	0.00	0.00
4.572	21.90	0.07	0.141	0.006	-0.778	0.168	3.841	0.540	0.00	0.00
5.080	23.16	0.22	0.119	0.006	-0.926	0.169	4.310	0.858	0.00	0.00
5.588	24.19	0.18	0.098	0.008	-1.022	0.245	4.193	1.022	0.00	0.00
6.350	25.35	0.24	0.080	0.010	-1.569	0.394	6.546	2.380	0.00	0.00
7.620	26.43	0.16	0.052	0.011	-1.950	0.666	10.830	3.965	0.00	0.00
8.890	26.93	0.07	0.030	0.003	-0.311	0.470	4.559	2.231	0.00	0.00
10.160	27.03	0.04	0.024	0.001	0.113	0.387	3.726	0.674	0.00	0.00
11.430	27.02	0.06	0.022	0.001	0.194	0.275	3.433	0.484	0.00	0.00
12.700	27.01	0.08	0.021	0.001	0.130	0.203	3.433	0.848	0.00	0.00
13.970	26.95	0.04	0.021	0.001	0.135	0.272	3.208	0.447	0.00	0.00
15.240	26.91	0.06	0.021	0.001	0.101	0.351	3.534	0.348	0.00	0.00
16.510	26.90	0.07	0.021	0.002	0.222	0.169	3.551	0.561	0.00	0.00
17.780	26.84	0.07	0.021	0.001	0.089	0.187	3.272	0.467	0.00	0.00
19.050	26.83	0.07	0.021	0.002	0.116	0.353	3.520	0.282	0.00	0.00
20.320	26.76	0.10	0.021	0.001	0.189	0.186	3.746	0.559	0.00	0.00
21.590	26.73	0.11	0.021	0.001	0.100	0.305	3.265	0.602	0.00	0.00
22.860	26.71	0.06	0.021	0.001	0.199	0.135	3.277	0.184	0.00	0.00
24.130	26.65	0.07	0.021	0.001	0.307	0.218	3.682	1.344	0.00	0.00
25.400	26.60	0.03	0.022	0.002	0.172	0.184	3.227	0.754	0.00	0.00
26.670	26.56	0.06	0.020	0.001	0.284	0.285	3.797	1.039	0.00	0.00
27.940	26.48	0.05	0.021	0.002	0.094	0.192	3.263	0.609	0.00	0.00
29.210	26.46	0.05	0.019	0.001	0.284	0.205	3.051	0.718	0.00	0.00
30.480	26.43	0.07	0.021	0.002	0.196	0.246	3.242	0.357	0.00	0.00

Table 77. Wake Measurements at 106.0% Chord for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
-31.750	26.30	0.11	0.021	0.001	0.074	0.381	3.937	1.185	0.00	0.00
-30.480	26.29	0.08	0.022	0.000	0.188	0.268	3.664	0.576	0.00	0.00
-29.210	26.26	0.07	0.022	0.001	0.082	0.204	3.464	0.399	0.00	0.00
-27.940	26.24	0.08	0.021	0.002	0.241	0.038	3.220	0.299	0.00	0.00
-26.670	26.22	0.08	0.022	0.003	0.033	0.330	3.527	0.511	0.00	0.00
-25.400	26.17	0.08	0.022	0.001	0.140	0.232	3.969	0.667	0.00	0.00
-24.130	26.17	0.05	0.021	0.002	0.159	0.087	3.572	0.242	0.00	0.00
-22.860	26.13	0.07	0.021	0.001	0.073	0.051	3.698	0.585	0.00	0.00
-21.590	26.12	0.09	0.022	0.002	0.211	0.511	4.715	2.291	0.00	0.00
-20.320	26.06	0.04	0.021	0.002	0.079	0.582	5.231	1.993	0.00	0.00
-19.050	26.04	0.05	0.022	0.001	0.093	0.221	3.515	0.785	0.00	0.00
-17.780	26.01	0.06	0.022	0.001	0.141	0.119	3.914	0.945	0.00	0.00
-16.510	25.92	0.09	0.023	0.002	-0.016	0.250	3.419	0.255	0.00	0.00
-15.240	25.85	0.07	0.025	0.002	0.040	0.199	3.349	0.318	0.00	0.00
-13.970	25.68	0.15	0.031	0.007	-0.918	0.970	7.154	3.528	0.00	0.00
-12.700	25.34	0.11	0.051	0.008	-2.912	1.174	18.550	7.365	0.00	0.00
-11.430	24.63	0.15	0.075	0.007	-2.606	0.637	13.960	6.603	0.00	0.00
-10.670	23.85	0.16	0.099	0.012	-1.978	0.601	9.031	4.017	0.00	0.00
-10.160	22.93	0.29	0.125	0.020	-1.716	0.192	7.526	0.982	0.00	0.00
-9.649	22.24	0.22	0.133	0.011	-1.278	0.102	5.426	0.900	0.00	0.00
-9.141	21.08	0.33	0.158	0.013	-1.020	0.205	4.302	0.856	0.00	0.00
-8.633	20.08	0.43	0.176	0.017	-0.804	0.095	3.647	0.310	0.00	0.00
-8.125	18.87	0.33	0.202	0.016	-0.690	0.142	3.482	0.508	0.05	0.13
-7.617	17.64	0.35	0.223	0.012	-0.490	0.102	2.969	0.219	0.00	0.00
-7.109	16.20	0.37	0.249	0.019	-0.386	0.021	2.836	0.146	0.03	0.09
-6.601	14.86	0.40	0.280	0.013	-0.203	0.064	2.549	0.155	0.03	0.09
-6.093	13.64	0.23	0.295	0.007	-0.028	0.045	2.354	0.051	0.02	0.04
-5.585	12.01	0.40	0.320	0.013	0.269	0.061	2.565	0.122	0.02	0.04
-5.077	10.98	0.10	0.312	0.006	0.469	0.093	2.925	0.187	0.02	0.04
-4.569	10.13	0.20	0.296	0.007	0.632	0.113	3.519	0.370	0.02	0.04
-4.061	9.90	0.19	0.271	0.007	0.519	0.122	3.430	0.422	0.00	0.00
-3.553	10.10	0.12	0.257	0.008	0.407	0.059	3.302	0.454	0.00	0.00
-3.045	11.09	0.12	0.254	0.007	0.412	0.094	3.086	0.289	0.00	0.00
-2.791	11.85	0.23	0.255	0.006	0.407	0.098	3.052	0.203	0.02	0.04
-2.537	12.69	0.17	0.257	0.008	0.285	0.085	2.747	0.174	0.00	0.00
-2.283	13.74	0.16	0.255	0.005	0.172	0.082	2.515	0.115	0.00	0.00
-2.029	14.94	0.14	0.238	0.004	0.032	0.083	2.537	0.112	0.00	0.00
-1.775	16.18	0.08	0.224	0.002	-0.172	0.095	2.593	0.138	0.00	0.00
-1.521	17.33	0.28	0.203	0.008	-0.434	0.061	2.920	0.276	0.00	0.00

Table 77. (Continued)

-1.267	18.44	0.16	0.183	0.007	-0.542	0.114	3.262	0.343	0.00	0.00
-1.013	19.52	0.25	0.162	0.009	-0.821	0.102	4.120	0.646	0.02	0.04
-0.506	20.98	0.06	0.127	0.005	-0.945	0.236	5.088	1.247	0.00	0.00
0.508	22.38	0.34	0.098	0.010	-1.367	0.660	7.719	3.921	0.00	0.00
1.270	23.37	0.09	0.077	0.010	-1.246	0.630	6.763	3.703	0.00	0.00
2.540	24.14	0.18	0.067	0.007	-1.794	0.742	8.932	4.791	0.00	0.00
3.810	24.89	0.11	0.043	0.006	-1.708	0.429	7.748	1.719	0.00	0.00
5.080	25.24	0.14	0.027	0.005	-0.467	0.589	4.277	1.224	0.00	0.00
6.350	25.30	0.12	0.024	0.003	-0.019	0.468	4.327	1.219	0.00	0.00
7.620	25.31	0.14	0.022	0.002	0.108	0.509	3.909	0.970	0.00	0.00
8.890	25.33	0.12	0.021	0.002	0.043	0.271	3.351	0.663	0.00	0.00
10.160	25.36	0.12	0.022	0.001	0.065	0.283	3.105	0.548	0.00	0.00
11.430	25.36	0.11	0.021	0.002	0.171	0.268	3.348	0.326	0.00	0.00
12.700	25.35	0.11	0.022	0.002	0.154	0.161	3.292	0.271	0.00	0.00
13.970	25.35	0.13	0.021	0.001	-0.089	0.193	3.005	0.263	0.00	0.00
15.240	25.40	0.14	0.022	0.001	0.121	0.218	3.492	0.259	0.00	0.00
16.510	25.36	0.10	0.020	0.001	0.267	0.248	3.209	0.295	0.00	0.00
17.780	25.39	0.12	0.022	0.001	-0.072	0.081	3.137	0.310	0.00	0.00
19.050	25.41	0.12	0.021	0.001	0.013	0.201	3.161	0.376	0.00	0.00
20.320	25.45	0.13	0.022	0.001	0.003	0.298	3.289	0.454	0.00	0.00
21.590	25.44	0.11	0.022	0.001	0.062	0.188	2.990	0.306	0.00	0.00
22.860	25.45	0.12	0.022	0.001	0.028	0.352	3.268	0.540	0.00	0.00
24.130	25.49	0.11	0.021	0.001	0.186	0.304	3.527	0.831	0.00	0.00
25.400	25.49	0.13	0.021	0.001	0.128	0.140	3.028	0.463	0.00	0.00

Table 78. Wake Measurements at 109.7% Chord for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
-31.750	25.77	0.03	0.023	0.001	0.027	0.155	3.206	0.548	0.00	0.00
-30.480	25.75	0.09	0.022	0.001	-0.041	0.136	3.385	0.308	0.00	0.00
-29.210	25.75	0.06	0.023	0.002	0.060	0.244	3.102	0.391	0.00	0.00
-27.940	25.74	0.09	0.024	0.001	-0.121	0.690	4.851	1.651	0.00	0.00
-26.670	25.76	0.07	0.023	0.001	-0.024	0.482	3.970	1.671	0.00	0.00
-25.400	25.72	0.05	0.022	0.001	-0.088	0.134	3.559	0.491	0.00	0.00
-24.130	25.68	0.10	0.022	0.002	-0.052	0.283	3.354	0.423	0.00	0.00
-22.860	25.65	0.04	0.023	0.004	-0.312	0.724	4.819	2.711	0.00	0.00
-21.590	25.64	0.04	0.023	0.001	-0.050	0.253	2.902	0.334	0.00	0.00
-20.320	25.59	0.03	0.023	0.002	0.058	0.429	3.656	0.618	0.00	0.00
-19.050	25.60	0.05	0.023	0.002	0.053	0.259	3.178	0.519	0.00	0.00
-17.780	25.57	0.09	0.024	0.002	0.044	0.313	3.163	0.595	0.00	0.00
-16.510	25.49	0.06	0.024	0.002	0.003	0.166	3.214	0.680	0.00	0.00
-15.240	25.24	0.18	0.046	0.021	-2.744	1.726	18.120	9.345	0.00	0.00
-13.970	24.89	0.14	0.065	0.019	-3.195	0.996	18.140	7.881	0.00	0.00
-12.700	24.20	0.25	0.085	0.021	-2.166	0.688	10.310	5.349	0.00	0.00
-11.680	22.95	0.31	0.128	0.013	-1.941	0.470	8.598	3.269	0.00	0.00
-11.170	22.09	0.59	0.148	0.026	-1.542	0.329	6.362	1.312	0.00	0.00
-10.670	21.32	0.45	0.162	0.017	-1.213	0.358	4.818	1.263	0.00	0.00
-10.160	20.25	0.35	0.181	0.011	-0.964	0.230	4.022	0.725	0.00	0.00
-9.649	19.28	0.39	0.198	0.005	-0.680	0.138	3.112	0.284	0.00	0.00
-9.141	17.97	0.42	0.220	0.009	-0.461	0.121	2.795	0.274	0.00	0.00
-8.633	16.66	0.27	0.243	0.019	-0.262	0.102	2.644	0.194	0.00	0.00
-8.125	15.46	0.26	0.268	0.019	-0.170	0.194	2.651	0.343	0.03	0.09
-7.617	14.38	0.23	0.263	0.018	0.102	0.114	2.619	0.214	0.02	0.04
-7.109	13.67	0.18	0.262	0.013	0.227	0.106	2.811	0.198	0.00	0.00
-6.601	12.84	0.19	0.244	0.010	0.362	0.112	3.103	0.262	0.00	0.00
-6.093	12.37	0.19	0.233	0.010	0.375	0.106	3.298	0.281	0.00	0.00
-5.585	12.29	0.12	0.213	0.009	0.292	0.157	3.708	0.366	0.00	0.00
-5.077	12.57	0.11	0.204	0.007	0.278	0.177	3.460	0.285	0.00	0.00
-4.569	13.34	0.10	0.199	0.007	0.235	0.079	3.362	0.440	0.00	0.00
-4.061	14.28	0.20	0.206	0.012	0.136	0.088	3.138	0.166	0.00	0.00
-3.553	15.46	0.20	0.209	0.021	-0.094	0.099	3.105	0.229	0.02	0.04
-3.045	16.94	0.13	0.196	0.007	-0.290	0.128	3.121	0.229	0.00	0.00
-2.537	18.32	0.26	0.188	0.016	-0.658	0.187	3.827	0.644	0.00	0.00
-2.029	19.71	0.29	0.161	0.012	-0.957	0.226	4.606	0.755	0.00	0.00
-1.521	21.11	0.27	0.130	0.013	-1.131	0.445	5.838	2.447	0.00	0.00
-1.013	22.06	0.62	0.115	0.026	-1.416	0.540	6.898	2.723	0.00	0.00
1.270	24.01	0.29	0.083	0.029	-2.438	1.360	12.620	8.919	0.00	0.00

Table 78. (Continued)

2.540	24.61	0.29	0.059	0.032	-2.551	1.061	13.800	6.719	0.00	0.00
3.810	25.02	0.09	0.029	0.005	-0.751	1.129	6.652	4.429	0.00	0.00
5.080	25.10	0.02	0.024	0.003	-0.421	0.840	5.488	2.767	0.00	0.00
6.350	25.19	0.05	0.023	0.002	0.105	0.480	4.136	2.076	0.00	0.00
7.620	25.15	0.08	0.024	0.000	0.067	0.287	3.428	0.423	0.00	0.00
8.890	25.17	0.03	0.023	0.001	0.083	0.171	3.531	0.252	0.00	0.00
10.160	25.21	0.05	0.022	0.001	0.057	0.241	3.131	0.138	0.00	0.00
11.430	25.20	0.04	0.023	0.001	-0.020	0.221	3.381	1.050	0.00	0.00
12.700	25.20	0.07	0.022	0.001	0.227	0.200	3.240	0.443	0.00	0.00
13.970	25.22	0.10	0.023	0.003	-0.038	0.326	3.736	0.708	0.00	0.00
15.240	25.21	0.06	0.021	0.002	0.182	0.130	3.265	0.701	0.00	0.00
16.510	25.25	0.06	0.022	0.002	0.166	0.235	3.506	0.549	0.00	0.00
17.780	25.23	0.09	0.022	0.001	0.048	0.318	3.588	0.736	0.00	0.00
19.050	25.24	0.09	0.022	0.002	-0.110	0.301	4.215	1.403	0.00	0.00
20.320	25.25	0.06	0.022	0.001	0.090	0.140	3.378	0.337	0.00	0.00
21.590	25.26	0.07	0.022	0.002	0.101	0.301	3.415	0.532	0.00	0.00
22.860	25.30	0.08	0.021	0.001	0.119	0.186	3.437	0.267	0.00	0.00
24.130	25.29	0.05	0.021	0.002	0.053	0.217	3.173	0.206	0.00	0.00
25.400	25.28	0.08	0.022	0.002	0.003	0.474	3.934	1.129	0.00	0.00

Table 79. Wake Measurements at 131.9% Chord for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
-42.440	24.86	0.11	----	----	----	----	----	----	----	----
-41.690	24.84	0.12	----	----	----	----	----	----	----	----
-40.940	24.83	0.11	----	----	----	----	----	----	----	----
-40.190	24.84	0.11	----	----	----	----	----	----	----	----
-39.440	24.83	0.13	----	----	----	----	----	----	----	----
-38.690	24.82	0.12	----	----	----	----	----	----	----	----
-37.950	24.83	0.11	----	----	----	----	----	----	----	----
-37.200	24.82	0.12	----	----	----	----	----	----	----	----
-36.450	24.83	0.13	----	----	----	----	----	----	----	----
-35.700	24.81	0.12	----	----	----	----	----	----	----	----
-34.950	24.82	0.12	----	----	----	----	----	----	----	----
-34.200	24.81	0.11	----	----	----	----	----	----	----	----
-33.450	24.80	0.12	----	----	----	----	----	----	----	----
-32.700	24.81	0.13	----	----	----	----	----	----	----	----
-31.950	24.80	0.11	----	----	----	----	----	----	----	----
-31.200	24.77	0.11	----	----	----	----	----	----	----	----
-30.450	24.82	0.09	----	----	----	----	----	----	----	----
-29.700	24.78	0.12	----	----	----	----	----	----	----	----
-28.950	24.80	0.12	----	----	----	----	----	----	----	----
-28.200	24.79	0.13	----	----	----	----	----	----	----	----
-27.450	24.79	0.11	----	----	----	----	----	----	----	----
-26.710	24.80	0.11	----	----	----	----	----	----	----	----
-25.960	24.78	0.13	----	----	----	----	----	----	----	----
-25.210	24.76	0.12	----	----	----	----	----	----	----	----
-24.460	24.70	0.12	----	----	----	----	----	----	----	----
-23.710	24.69	0.13	----	----	----	----	----	----	----	----
-22.960	24.62	0.15	----	----	----	----	----	----	----	----
-22.210	24.41	0.30	----	----	----	----	----	----	----	----
-21.460	24.01	0.23	----	----	----	----	----	----	----	----
-20.710	23.69	0.20	----	----	----	----	----	----	----	----
-19.960	23.14	0.30	----	----	----	----	----	----	----	----
-19.210	22.40	0.43	----	----	----	----	----	----	----	----
-18.460	21.69	0.50	----	----	----	----	----	----	----	----
-17.710	20.86	0.45	----	----	----	----	----	----	----	----
-16.960	20.23	0.32	----	----	----	----	----	----	----	----
-16.220	19.29	0.36	----	----	----	----	----	----	----	----
-15.470	18.80	0.14	----	----	----	----	----	----	----	----
-14.720	18.49	0.49	----	----	----	----	----	----	----	----
-13.970	17.90	0.13	----	----	----	----	----	----	----	----

Table 79. (Continued)

-13.220	17.61	0.10
-12.470	17.78	0.08
-11.720	18.38	0.16
-10.970	18.74	0.17
-10.220	19.57	0.06
-9.472	20.17	0.44
-8.722	21.00	0.49
-7.973	22.17	0.38
-7.224	22.81	0.31
-6.474	23.39	0.20
-5.725	23.93	0.12
-4.976	24.27	0.09
-4.227	24.30	0.18
-3.477	24.57	0.10
-2.728	24.58	0.10
-1.979	24.64	0.11
-1.229	24.69	0.09
-0.480	24.70	0.11
0.267	24.73	0.10
1.016	24.72	0.11
1.765	24.75	0.12
2.515	24.74	0.11
3.264	24.72	0.11
4.013	24.72	0.11
4.762	24.74	0.11
5.512	24.71	0.08
6.261	24.74	0.12
7.010	24.75	0.09
7.760	24.74	0.12
8.509	24.73	0.10
9.258	24.72	0.12
10.010	24.73	0.12
10.760	24.71	0.08
11.510	24.71	0.11
12.260	24.71	0.10
13.000	24.73	0.10
13.750	24.72	0.10
14.500	24.72	0.11

Table 80. Wake Measurements at 152.6% Chord for an incidence angle of -8.5 deg.

y (mm)	u (m/s)		Local Turbulence Intensity		Skewness		Kurtosis		% Backflow	
	value	deviation	value	deviation	value	deviation	value	deviation	value	deviation
-51.690	24.06	0.07	----	----	----	----	----	----	----	----
-50.940	24.04	0.08	----	----	----	----	----	----	----	----
-50.190	24.09	0.06	----	----	----	----	----	----	----	----
-49.440	24.06	0.13	----	----	----	----	----	----	----	----
-48.690	24.05	0.12	----	----	----	----	----	----	----	----
-47.940	24.04	0.10	----	----	----	----	----	----	----	----
-47.190	24.02	0.07	----	----	----	----	----	----	----	----
-46.440	24.05	0.13	----	----	----	----	----	----	----	----
-45.690	24.01	0.10	----	----	----	----	----	----	----	----
-44.940	24.04	0.11	----	----	----	----	----	----	----	----
-44.190	24.03	0.12	----	----	----	----	----	----	----	----
-43.440	24.01	0.08	----	----	----	----	----	----	----	----
-42.690	24.00	0.10	----	----	----	----	----	----	----	----
-41.950	24.00	0.10	----	----	----	----	----	----	----	----
-41.200	24.00	0.10	----	----	----	----	----	----	----	----
-40.450	24.00	0.13	----	----	----	----	----	----	----	----
-39.700	24.02	0.10	----	----	----	----	----	----	----	----
-38.950	23.99	0.11	----	----	----	----	----	----	----	----
-38.200	23.98	0.10	----	----	----	----	----	----	----	----
-37.450	23.98	0.11	----	----	----	----	----	----	----	----
-36.700	23.98	0.08	----	----	----	----	----	----	----	----
-35.950	23.98	0.09	----	----	----	----	----	----	----	----
-35.200	23.96	0.11	----	----	----	----	----	----	----	----
-34.450	24.00	0.14	----	----	----	----	----	----	----	----
-33.700	23.95	0.11	----	----	----	----	----	----	----	----
-32.950	23.97	0.08	----	----	----	----	----	----	----	----
-32.200	23.85	0.15	----	----	----	----	----	----	----	----
-31.460	23.59	0.20	----	----	----	----	----	----	----	----
-30.710	23.55	0.23	----	----	----	----	----	----	----	----
-29.960	23.20	0.24	----	----	----	----	----	----	----	----
-29.210	22.95	0.35	----	----	----	----	----	----	----	----
-28.460	22.32	0.59	----	----	----	----	----	----	----	----
-27.710	22.13	0.37	----	----	----	----	----	----	----	----
-26.960	21.55	0.33	----	----	----	----	----	----	----	----
-26.210	21.04	0.46	----	----	----	----	----	----	----	----
-25.460	20.52	0.36	----	----	----	----	----	----	----	----
-24.710	20.18	0.39	----	----	----	----	----	----	----	----
-23.960	19.87	0.24	----	----	----	----	----	----	----	----
-23.210	19.24	0.23	----	----	----	----	----	----	----	----

Table 80. (Continued)

-22.460	18.87	0.22
-21.710	18.64	0.16
-20.970	18.59	0.18
-20.220	18.79	0.14
-19.470	19.11	0.14
-18.720	19.51	0.20
-17.970	19.84	0.16
-17.220	20.48	0.12
-16.470	21.01	0.33
-15.720	21.73	0.17
-14.970	22.15	0.29
-14.220	22.67	0.06
-13.470	23.20	0.14
-12.720	23.41	0.22
-11.970	23.82	0.17
-11.220	24.00	0.14
-10.470	24.03	0.12
-9.726	24.05	0.14
-8.976	24.08	0.09
-8.227	24.00	0.19
-7.478	24.04	0.06
-6.728	24.06	0.11
-5.979	24.01	0.11
-5.230	24.00	0.11
-4.481	24.01	0.11
-3.731	24.00	0.07
-2.982	23.99	0.14
-2.233	24.01	0.12
-1.483	24.01	0.08
-0.734	24.01	0.09
0.013	24.00	0.11
0.762	24.01	0.09
1.511	24.00	0.12
2.261	23.97	0.11
3.010	23.97	0.09
3.759	24.02	0.12
4.508	23.99	0.10
5.258	23.99	0.12
6.007	24.00	0.13
6.756	24.01	0.10
7.506	23.99	0.14
8.255	23.95	0.16

Chapter 3 Reconstructed Values

In volume one of this report, we performed a detailed analysis of all the measured boundary layers. The streamline curvature within the blade passage causes a normal pressure gradient which results in a cross streamline gradient in the inviscid velocity profile. In order to find a consistent method to account for this normal pressure gradient, we treated the measured velocity profiles as composite profiles composed of the sum of a boundary layer profile and an inviscid profile, less what appears in both,

$$u_{\text{meas}} = u + u_{\text{inv}} - U_e \, .$$

A least-squares polynomial fit was used to find the inviscid profile from the freestream velocity measurements and this profile was extrapolated to the blade surface to determine U_e since the measured and boundary layer profiles vanish at the blade surface. Remember that the values of U_e are only a result of this technique for analyzing boundary layers with a normal pressure gradient; these values may not exist in the actual flow. We can use the profiles of u_{meas} and u_{inv} and the values of U_e to reconstruct the velocity profiles in terms of the boundary layer velocity, u. Tables 81 through 147 show these reconstructed profiles.

Table 81. Reconstructed Velocity Data for 2.7% Chord on the Pressure Surface for an incidence angle of 5.0 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.127	16.31	16.24
0.190	20.00	19.90
0.254	21.04	20.90
0.317	21.32	21.15
0.381	21.28	21.07
0.508	21.53	21.26
0.762	21.86	21.45
1.016	22.14	21.60
1.524	22.52	21.72
2.032	22.82	21.77
2.540	23.22	21.93
3.810	23.96	22.07
5.080	24.76	22.31
6.350	25.36	22.39
7.620	25.98	22.52
8.890	26.38	22.48
10.160	26.77	22.44
11.430	27.24	22.51
12.700	27.60	22.50
13.970	27.93	22.48
15.240	28.27	22.50
16.510	28.54	22.47
17.780	28.79	22.44
19.050	29.11	22.49
20.320	29.33	22.47
21.590	29.50	22.41
22.860	29.72	22.41
24.130	29.98	22.47
25.400	30.17	22.45
26.670	30.36	22.46
27.940	30.54	22.45
29.210	30.77	22.51
30.480	30.88	22.45
31.750	31.11	22.50
33.020	31.28	22.50
34.290	31.47	22.52
35.560	31.61	22.48
36.830	31.81	22.49
38.100	31.90	22.39

Table 82. Reconstructed Velocity Data for 5.9% Chord on the Pressure Surface for an incidence angle of 5.0 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.317	19.76	19.73
0.381	22.35	22.31
0.508	23.76	23.68
0.762	23.94	23.80
1.016	24.10	23.90
1.524	24.28	23.95
2.032	24.34	23.89
2.540	24.45	23.88
3.810	24.69	23.81
5.080	24.92	23.75
6.350	25.18	23.71
7.620	25.52	23.76
8.890	25.80	23.76
10.160	26.05	23.73
11.430	26.37	23.78
12.700	26.66	23.80
13.970	26.92	23.80
15.240	27.20	23.82
16.510	27.46	23.83
17.780	27.71	23.84
19.050	27.99	23.88
20.320	28.19	23.85
21.590	28.41	23.83
22.860	28.63	23.83
24.130	28.86	23.84
25.400	29.06	23.82
26.670	29.30	23.86
27.940	29.47	23.83
29.210	29.68	23.84
30.480	29.83	23.80
31.750	29.98	23.76
33.020	30.21	23.81
34.290	30.45	23.87
35.560	30.60	23.85
36.830	30.77	23.86
38.100	30.91	23.83

Table 83. Reconstructed Velocity Data for 14.4% Chord on the Pressure Surface for an incidence angle of 5.0 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	9.79	9.76
0.317	13.69	13.66
0.381	17.35	17.31
0.444	20.38	20.33
0.508	22.29	22.24
0.762	24.67	24.58
1.016	24.83	24.70
1.524	24.95	24.76
2.032	25.00	24.74
2.540	25.06	24.74
3.810	25.16	24.67
5.080	25.30	24.63
6.350	25.44	24.61
7.620	25.59	24.59
8.890	25.76	24.59
10.160	25.88	24.54
11.430	26.04	24.53
12.700	26.22	24.54
13.970	26.35	24.49
15.240	26.51	24.49
16.510	26.65	24.46
17.780	26.85	24.49
19.050	27.00	24.48
20.320	27.15	24.45
21.590	27.38	24.51
22.860	27.48	24.44
24.130	27.65	24.44
25.400	27.86	24.49
26.670	28.01	24.47
27.940	28.19	24.47
29.210	28.33	24.44
30.480	28.56	24.51
31.750	28.68	24.47
33.020	28.83	24.44
34.290	29.04	24.48
35.560	29.22	24.49
36.830	29.36	24.46

Table 84. Reconstructed Velocity Data for 25.1% Chord on the Pressure Surface for an incidence angle of 5.0 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	5.60	5.58
0.317	8.23	8.20
0.381	10.54	10.51
0.444	13.60	13.56
0.508	16.06	16.01
0.572	18.52	18.46
0.635	20.14	20.08
0.762	22.35	22.27
0.889	23.57	23.48
1.016	24.11	24.01
1.270	24.36	24.23
1.524	24.41	24.26
2.032	24.46	24.24
2.540	24.57	24.29
3.810	24.65	24.23
5.080	24.75	24.19
6.350	24.92	24.22
7.620	25.03	24.20
8.890	25.19	24.22
10.160	25.32	24.21
11.430	25.47	24.21
12.700	25.58	24.19
13.970	25.68	24.14
15.240	25.85	24.17
16.510	25.95	24.13
17.780	26.11	24.16
19.050	26.25	24.15
20.320	26.39	24.15
21.590	26.53	24.15
22.860	26.67	24.15
24.130	26.73	24.07
25.400	26.92	24.12
26.670	27.06	24.12
27.940	27.22	24.14
29.210	27.32	24.10
30.480	27.51	24.14
31.750	27.65	24.15
33.020	27.80	24.15
34.290	27.94	24.16
35.560	28.05	24.13
36.830	28.22	24.15
38.100	28.36	24.15

Table 85. Reconstructed Velocity Data for 35.8% Chord on the Pressure Surface for an incidence angle of 5.0 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.381	5.06	5.01
0.508	8.43	8.37
0.635	12.27	12.20
0.762	16.72	16.63
0.889	19.34	19.24
1.016	21.48	21.37
1.143	22.73	22.61
1.270	23.45	23.32
1.524	24.03	23.86
2.032	24.14	23.92
2.540	24.19	23.92
3.810	24.26	23.87
5.080	24.37	23.85
6.350	24.48	23.83
7.620	24.68	23.90
8.890	24.73	23.82
10.160	24.86	23.83
11.430	24.98	23.82
12.700	25.15	23.86
13.970	25.24	23.82
15.240	25.40	23.85
16.510	25.52	23.85
17.780	25.65	23.85
19.050	25.80	23.87
20.320	25.88	23.82
21.590	26.05	23.87
22.860	26.14	23.83
24.130	26.29	23.85
25.400	26.39	23.82
26.670	26.50	23.80
27.940	26.65	23.83
29.210	26.80	23.84
30.480	26.89	23.81
31.750	26.99	23.79
33.020	27.16	23.82
34.290	27.32	23.85
35.560	27.44	23.85
36.830	27.57	23.85
38.100	27.74	23.89

Table 86. Reconstructed Velocity Data for 46.5% Chord on the Pressure Surface for an incidence angle of 5.0 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	2.23	2.20
0.381	5.22	5.18
0.508	7.72	7.66
0.635	10.64	10.57
0.762	13.58	13.50
0.889	16.29	16.20
1.016	18.95	18.85
1.143	20.87	20.75
1.270	22.09	21.96
1.397	22.89	22.75
1.524	23.14	22.99
1.651	23.51	23.34
1.778	23.65	23.47
1.905	23.71	23.52
2.032	23.78	23.58
2.159	23.76	23.55
2.286	23.81	23.58
2.413	23.83	23.59
2.540	23.87	23.62
3.175	23.91	23.59
3.810	24.01	23.63
5.080	24.11	23.60
6.350	24.25	23.62
7.620	24.35	23.60
8.890	24.42	23.55
10.160	24.58	23.58
11.430	24.75	23.62
12.700	24.83	23.57
13.970	24.95	23.57
15.240	25.10	23.59
16.510	25.21	23.58
17.780	25.33	23.57
19.050	25.47	23.59
20.320	25.57	23.57
21.590	25.70	23.57
22.860	25.84	23.58
24.130	25.98	23.60
25.400	26.13	23.62
26.670	26.21	23.57
27.940	26.31	23.55
29.210	26.46	23.58
30.480	26.59	23.58
31.750	26.67	23.53
33.020	26.87	23.61
34.290	26.98	23.59
35.560	27.11	23.60
36.830	27.22	23.58
38.100	27.38	23.62

Table 87. Reconstructed Velocity Data for 57.2% Chord on the Pressure Surface for an incidence angle of 5.0 deg.

Y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	2.28	2.25
0.381	5.65	5.61
0.508	7.92	7.87
0.635	9.77	9.71
0.762	11.91	11.84
0.889	13.65	13.56
1.016	15.88	15.77
1.143	17.35	17.23
1.270	19.04	18.91
1.397	20.33	20.19
1.524	21.32	21.17
1.651	21.71	21.54
1.778	22.34	22.17
1.905	22.77	22.59
2.032	22.93	22.74
2.159	23.15	22.95
2.286	23.25	23.03
2.413	23.41	23.18
2.540	23.61	23.36
3.175	23.68	23.37
3.810	23.77	23.41
5.080	23.82	23.34
6.350	23.96	23.36
7.620	24.10	23.38
8.890	24.27	23.43
10.160	24.37	23.42
11.430	24.45	23.38
12.700	24.59	23.39
13.970	24.72	23.41
15.240	24.82	23.39
16.510	24.92	23.37
17.780	25.10	23.43
19.050	25.19	23.40
20.320	25.31	23.40
21.590	25.42	23.39
22.860	25.51	23.36
24.130	25.66	23.40
25.400	25.75	23.37
26.670	25.91	23.41
27.940	26.00	23.38
29.210	26.13	23.39
30.480	26.26	23.40
31.750	26.38	23.40
33.020	26.49	23.39
34.290	26.59	23.38
35.560	26.73	23.40
36.830	26.86	23.40
38.100	26.96	23.39

Table 88. Reconstructed Velocity Data for 68.0% Chord on the Pressure Surface for an incidence angle of 5.0 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.317	6.86	6.82
0.381	8.30	8.25
0.508	10.86	10.80
0.635	12.60	12.53
0.762	14.12	14.04
0.889	15.02	14.92
1.016	16.23	16.12
1.143	17.30	17.19
1.270	18.36	18.23
1.397	19.34	19.20
1.524	20.36	20.21
1.651	20.98	20.82
1.778	21.64	21.46
1.905	22.24	22.06
2.032	22.53	22.33
2.159	22.97	22.76
2.286	23.12	22.91
2.413	23.28	23.05
2.540	23.45	23.21
3.175	23.81	23.51
3.810	23.90	23.55
5.080	24.02	23.55
6.350	24.10	23.52
7.620	24.23	23.54
8.890	24.36	23.56
10.160	24.44	23.53
11.430	24.57	23.54
12.700	24.68	23.54
13.970	24.79	23.54
15.240	24.91	23.55
16.510	25.05	23.57
17.780	25.18	23.59
19.050	25.28	23.57
20.320	25.38	23.57
21.590	25.48	23.55
22.860	25.60	23.56
24.130	25.70	23.55
25.400	25.81	23.54
26.670	25.93	23.55
27.940	26.00	23.51
29.210	26.15	23.55
30.480	26.28	23.57
31.750	26.37	23.54
33.020	26.51	23.57
34.290	26.64	23.59
35.560	26.72	23.55
36.830	26.83	23.56
38.100	26.97	23.58

Table 89. Reconstructed Velocity Data for 78.6% Chord on the Pressure Surface for an incidence angle of 5.0 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.317	11.72	11.69
0.381	13.10	13.06
0.508	15.34	15.30
0.635	16.74	16.68
0.762	17.45	17.38
0.889	18.32	18.24
1.016	18.77	18.69
1.143	19.33	19.23
1.270	19.63	19.52
1.397	20.24	20.12
1.524	20.82	20.70
1.651	21.45	21.31
1.778	21.80	21.65
1.905	22.33	22.17
2.032	22.67	22.50
2.159	22.85	22.67
2.286	23.16	22.97
2.413	23.34	23.14
2.540	23.54	23.33
3.175	23.96	23.69
3.810	24.18	23.86
4.445	24.29	23.92
5.080	24.33	23.91
6.350	24.48	23.96
7.620	24.62	24.00
8.890	24.73	24.00
10.160	24.87	24.04
11.430	24.96	24.02
12.700	25.08	24.04
13.970	25.19	24.04
15.240	25.32	24.07
16.510	25.44	24.08
17.780	25.52	24.06
19.050	25.64	24.08
20.320	25.77	24.10
21.590	25.87	24.10
22.860	25.98	24.10
24.130	26.04	24.06
25.400	26.15	24.06
26.670	26.23	24.04
27.940	26.39	24.09
29.210	26.49	24.09
30.480	26.61	24.11
31.750	26.68	24.07
33.020	26.78	24.07
34.290	26.92	24.10
35.560	26.98	24.05
36.830	27.07	24.04
38.100	27.20	24.07

Table 90. Reconstructed Velocity Data for 89.3% Chord on the Pressure Surface for an incidence angle of 5.0 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	12.52	12.48
0.317	14.57	14.53
0.381	16.08	16.04
0.508	17.98	17.93
0.635	19.29	19.24
0.762	20.18	20.11
0.889	20.86	20.79
1.016	21.36	21.28
1.143	21.85	21.76
1.270	22.15	22.05
1.397	22.45	22.34
1.524	22.61	22.50
1.651	23.00	22.88
1.778	23.26	23.14
1.905	23.55	23.42
2.032	23.72	23.59
2.159	23.93	23.79
2.286	24.13	23.98
2.413	24.32	24.16
2.540	24.49	24.32
3.175	25.04	24.83
3.810	25.37	25.13
4.445	25.45	25.18
5.080	25.58	25.27
6.350	25.65	25.27
7.620	25.81	25.36
8.890	25.94	25.42
10.160	26.00	25.41
11.430	26.12	25.45
12.700	26.24	25.50
13.970	26.32	25.51
15.240	26.42	25.54
16.510	26.47	25.51
17.780	26.54	25.51
19.050	26.63	25.53
20.320	26.65	25.48
21.590	26.72	25.48
22.860	26.77	25.46
24.130	26.91	25.52
25.400	26.97	25.51
26.670	27.05	25.52
27.940	27.12	25.52
29.210	27.20	25.53
30.480	27.25	25.51
31.750	27.29	25.48
33.020	27.45	25.56
34.290	27.48	25.53
35.560	27.56	25.53
36.830	27.58	25.48

Table 90. (Continued)

38.100	27.66	25.49

Table 91. Reconstructed Velocity Data for 97.9% Chord on the Pressure Surface for an incidence angle of 5.0 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.063	17.76	17.65
0.127	19.57	19.47
0.254	21.75	21.64
0.317	22.38	22.27
0.381	22.73	22.62
0.508	23.47	23.36
0.635	23.96	23.85
0.762	24.42	24.31
0.889	24.91	24.79
1.016	25.22	25.10
1.143	25.45	25.33
1.270	25.57	25.44
1.397	26.04	25.92
1.524	26.30	26.17
1.651	26.45	26.32
1.778	26.70	26.57
1.905	26.79	26.67
2.032	26.96	26.83
2.159	27.15	27.02
2.286	27.30	27.16
2.413	27.46	27.33
2.540	27.58	27.44
3.175	27.99	27.85
3.810	28.25	28.10
5.080	28.27	28.10
6.350	28.24	28.06
7.620	28.18	27.99
8.890	28.18	27.97
10.160	28.15	27.92
11.430	28.14	27.90
12.700	28.16	27.90
13.970	28.15	27.88
15.240	28.13	27.84
16.510	28.08	27.78
17.780	28.10	27.78
19.050	28.10	27.77
20.320	28.08	27.73
21.590	28.07	27.71
22.860	28.03	27.65
24.130	28.07	27.67
25.400	28.05	27.64
26.670	28.04	27.61
27.940	28.06	27.62
29.210	28.06	27.61
30.480	28.05	27.58
31.750	28.15	27.66
33.020	28.15	27.65
34.290	28.14	27.62
35.560	28.17	27.64

Table 91. (Continued)

36.830	28.22	27.67
38.100	28.21	27.64

Table 92. Reconstructed Velocity Data for 2.6% Chord on the Suction Surface for an incidence angle of 5.0 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	20.46	15.46
0.381	21.60	16.84
0.508	23.53	19.00
0.635	26.05	21.76
0.762	27.96	23.90
0.889	30.35	26.51
1.016	33.88	30.26
1.143	36.63	33.23
1.270	39.21	36.03
1.397	41.61	38.64
1.524	44.68	41.92
1.651	46.94	44.38
1.778	48.77	46.41
2.032	50.83	48.87
2.286	51.84	50.26
2.540	52.01	50.80
3.175	51.35	51.02
3.810	50.65	51.14
4.445	49.78	51.01
5.080	48.96	50.87
5.715	48.49	51.04
6.350	47.95	51.08
7.620	46.86	50.99
8.890	46.11	51.09
10.160	45.37	51.05
11.430	44.76	51.04
12.700	44.25	51.04
13.970	43.78	51.05
15.240	43.33	51.05

Table 93. Reconstructed Velocity Data for 7.6% Chord on the Suction Surface for an incidence angle of 5.0 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.127	24.48	24.56
0.190	25.67	25.76
0.254	26.33	26.44
0.381	27.43	27.56
0.508	28.19	28.34
0.635	29.52	29.70
0.762	30.59	30.80
0.889	31.81	32.03
1.016	32.87	33.12
1.143	34.25	34.52
1.270	35.27	35.56
1.397	36.61	36.93
1.524	37.81	38.16
1.651	38.81	39.17
1.778	40.09	40.48
1.905	40.87	41.29
2.032	41.54	41.98
2.159	42.45	42.92
2.286	42.94	43.43
2.413	43.47	43.98
2.540	43.87	44.41
3.175	44.81	45.47
3.810	45.03	45.80
4.445	44.92	45.81
5.080	44.86	45.87
5.715	44.76	45.90
6.350	44.72	45.97
7.620	44.46	45.95
8.890	44.28	46.01
10.160	44.02	45.99
11.430	43.81	46.02
12.700	43.58	46.02
13.970	43.25	45.94
15.240	43.00	45.93
16.510	42.78	45.94
17.780	42.57	45.97
19.050	42.31	45.95
20.320	42.12	46.00
21.590	41.87	45.99
22.860	41.68	46.04

Table 94. Reconstructed Velocity Data for 12.7% Chord on the Suction Surface for an incidence angle of 5.0 deg.

Y (mm)	u measured (m/s)	u reconstructed (m/s)
0.102	21.67	21.63
0.152	24.43	24.40
0.203	25.78	25.76
0.254	27.02	27.02
0.317	27.87	27.87
0.381	28.63	28.65
0.508	29.79	29.83
0.635	30.67	30.74
0.762	31.34	31.44
0.889	32.00	32.13
1.016	32.56	32.71
1.143	33.42	33.60
1.270	34.07	34.28
1.397	34.62	34.86
1.524	35.14	35.41
1.651	35.83	36.12
1.778	36.30	36.61
1.905	37.26	37.60
2.032	37.70	38.07
2.286	39.06	39.48
2.540	40.10	40.57
2.794	41.29	41.81
3.048	41.87	42.45
3.302	42.69	43.32
3.556	43.02	43.70
3.810	43.25	43.99
4.445	43.62	44.48
5.080	43.55	44.53
5.715	43.52	44.63
6.350	43.39	44.63
7.620	43.14	44.62
8.890	42.95	44.67
10.160	42.70	44.64
11.430	42.50	44.67
12.700	42.34	44.72
13.970	42.10	44.70
15.240	41.87	44.67
16.510	41.67	44.68
17.780	41.55	44.76
19.050	41.30	44.69
20.320	41.11	44.68
21.590	40.93	44.68
22.860	40.79	44.71
24.130	40.64	44.72
25.400	40.48	44.73
26.670	40.28	44.68
27.940	40.15	44.70
29.210	40.01	44.70
30.480	39.88	44.70

Table 94. (Continued)

31.750	39.76	44.71
33.020	39.63	44.71
34.290	39.50	44.69

Table 95. Reconstructed Velocity Data for 23.0% Chord on the Suction Surface for an incidence angle of 5.0 deg.

Y (mm)	u measured (m/s)	u reconstructed (m/s)
0.127	20.00	20.04
0.190	21.76	21.82
0.254	23.59	23.66
0.317	24.46	24.54
0.381	25.41	25.50
0.508	26.47	26.58
0.635	27.25	27.39
0.762	27.92	28.08
0.889	28.62	28.80
1.016	29.24	29.45
1.143	29.68	29.91
1.270	30.30	30.55
1.524	31.28	31.59
1.778	32.28	32.63
2.032	33.00	33.40
2.286	33.92	34.36
2.540	34.97	35.46
2.794	35.75	36.29
3.048	36.40	36.99
3.302	37.21	37.84
3.556	37.92	38.60
3.810	38.59	39.32
4.445	39.83	40.68
5.080	40.25	41.21
5.715	40.52	41.59
6.350	40.55	41.73
7.620	40.40	41.81
8.890	40.14	41.77
10.160	39.97	41.83
11.430	39.80	41.88
12.700	39.51	41.80
13.970	39.20	41.71
15.240	39.01	41.73
16.510	38.84	41.77
17.780	38.63	41.77
19.050	38.40	41.75
20.320	38.20	41.75
21.590	38.04	41.79
22.860	37.83	41.77
24.130	37.60	41.75
25.400	37.43	41.77
26.670	37.27	41.80
27.940	37.03	41.75
29.210	36.88	41.79
30.480	36.66	41.75
31.750	36.50	41.77
33.020	36.33	41.78
34.290	36.12	41.75
35.560	35.95	41.75

Table 95. (Continued)

36.830	35.79	41.76
38.100	35.64	41.79

Table 96. Reconstructed Velocity Data for 33.2% Chord on the Suction Surface for an incidence angle of 5.0 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.127	14.58	14.60
0.254	17.07	17.11
0.381	18.48	18.54
0.508	19.48	19.55
0.635	20.28	20.38
0.762	21.06	21.18
1.016	22.23	22.39
1.270	23.32	23.51
1.524	24.35	24.59
1.778	25.35	25.62
2.032	26.25	26.56
2.286	27.01	27.36
2.540	27.75	28.14
2.794	28.47	28.90
3.048	28.94	29.41
3.302	29.57	30.07
3.556	30.17	30.72
3.810	30.45	31.03
4.064	31.01	31.63
4.318	31.40	32.06
4.572	31.76	32.46
4.826	32.21	32.95
5.080	32.56	33.33
5.334	32.85	33.67
5.842	33.74	34.63
6.350	34.61	35.58
7.620	36.01	37.17
8.890	36.41	37.77
10.160	36.33	37.88
11.430	36.14	37.89
12.700	35.93	37.87
13.970	35.72	37.86
15.240	35.52	37.85
16.510	35.31	37.83
17.780	35.13	37.85
19.050	34.96	37.88
20.320	34.77	37.87
21.590	34.55	37.85
22.860	34.41	37.90
24.130	34.19	37.87
25.400	33.99	37.88
26.670	33.76	37.84
27.940	33.60	37.87
29.210	33.42	37.88
30.480	33.20	37.86
31.750	33.03	37.88
33.020	32.84	37.89
34.290	32.63	37.87
35.560	32.43	37.87

Table 96. (Continued)

36.830	32.24	37.87
38.100	32.03	37.85

Table 97. Reconstructed Velocity Data for 43.3% Chord on the Suction Surface for an incidence angle of 5.0 deg.

Y (mm)	u measured (m/s)	u reconstructed (m/s)
0.127	10.63	10.70
0.254	12.87	12.95
0.381	14.23	14.33
0.508	14.95	15.06
0.635	15.60	15.72
0.762	16.15	16.29
1.016	17.12	17.29
1.270	18.07	18.27
1.524	18.80	19.02
1.778	19.65	19.91
2.032	20.39	20.67
2.286	21.30	21.61
2.540	22.04	22.39
2.794	22.86	23.24
3.048	23.60	24.01
3.302	24.50	24.93
3.556	25.23	25.70
3.810	26.05	26.55
4.064	26.75	27.27
4.318	27.35	27.90
4.572	28.02	28.60
4.826	28.57	29.18
5.080	29.16	29.80
5.334	29.65	30.32
5.842	30.46	31.19
6.350	31.25	32.04
6.985	32.05	32.91
7.620	32.70	33.64
8.255	33.27	34.28
8.890	33.76	34.85
9.525	33.97	35.14
10.160	34.04	35.28
11.430	34.01	35.41
12.700	33.85	35.40
13.970	33.67	35.37
15.240	33.50	35.35
16.510	33.34	35.36
17.780	33.23	35.40
19.050	33.02	35.35
20.320	32.82	35.31
21.590	32.69	35.33
22.860	32.54	35.34
24.130	32.36	35.32
25.400	32.17	35.30
26.670	32.08	35.37
27.940	31.88	35.33
29.210	31.68	35.31
30.480	31.55	35.33
31.750	31.38	35.33

Table 97. (Continued)

33.020	31.21	35.33
34.290	31.04	35.33
35.560	30.88	35.34
36.830	30.71	35.34
38.100	30.52	35.32

Table 98. Reconstructed Velocity Data for 53.6% Chord on the Suction Surface for an incidence angle of 5.0 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.381	9.68	9.70
0.508	10.24	10.27
0.635	10.75	10.81
0.762	11.17	11.23
1.016	12.06	12.16
1.270	12.75	12.87
1.524	13.39	13.54
1.778	13.91	14.09
2.032	14.72	14.93
2.286	15.26	15.50
2.540	15.94	16.20
2.794	16.57	16.86
3.048	17.33	17.65
3.302	17.88	18.23
3.556	18.64	19.02
3.810	19.23	19.64
4.064	19.97	20.41
4.318	20.70	21.16
4.572	21.36	21.85
4.826	22.04	22.56
5.080	22.65	23.20
5.334	23.22	23.80
5.842	24.50	25.13
6.350	25.83	26.52
6.985	27.18	27.94
7.620	28.44	29.27
8.255	29.52	30.43
8.890	30.44	31.42
10.160	31.78	32.90
11.430	32.18	33.44
12.700	32.29	33.69
13.970	32.21	33.76
15.240	32.09	33.77
16.510	31.95	33.78
17.780	31.79	33.76
19.050	31.68	33.79
20.320	31.54	33.80
21.590	31.44	33.84
22.860	31.28	33.82
24.130	31.13	33.81
25.400	30.98	33.80
26.670	30.83	33.80
27.940	30.72	33.83
29.210	30.58	33.83
30.480	30.41	33.80
31.750	30.27	33.81
33.020	30.15	33.83
34.290	29.98	33.81
35.560	29.84	33.81

Table 98. (Continued)

36.830	29.73	33.83
38.100	29.56	33.81

Table 99. Reconstructed Velocity Data for 63.2% Chord on the Suction Surface for an incidence angle of 5.0 deg.

Y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	3.38	3.43
0.508	4.53	4.61
0.762	5.13	5.23
1.016	5.75	5.88
1.270	6.29	6.44
1.524	6.71	6.89
1.778	7.29	7.49
2.032	7.70	7.93
2.286	8.35	8.61
2.540	8.91	9.19
2.794	9.21	9.52
3.048	9.88	10.22
3.302	10.50	10.86
3.556	10.93	11.31
3.810	11.55	11.96
4.064	12.12	12.56
4.318	12.78	13.24
4.572	13.11	13.59
4.826	13.89	14.40
5.080	14.42	14.95
5.334	14.95	15.51
5.842	16.21	16.82
6.350	17.30	17.96
6.985	19.16	19.88
7.620	20.89	21.68
8.255	22.34	23.19
8.890	23.70	24.61
9.525	24.94	25.92
10.160	26.25	27.29
10.795	27.12	28.22
11.430	28.05	29.22
12.065	28.77	30.00
12.700	29.31	30.60
13.335	29.68	31.03
13.970	29.87	31.29
15.240	30.06	31.60
16.510	30.07	31.74
17.780	29.91	31.71
19.050	29.82	31.75
20.320	29.74	31.79
21.590	29.58	31.76
22.860	29.44	31.74
24.130	29.33	31.76
25.400	29.18	31.73
26.670	29.08	31.76
27.940	28.99	31.80
29.210	28.83	31.77
30.480	28.73	31.79
31.750	28.59	31.78

Table 99. (Continued)

33.020	28.45	31.77
34.290	28.35	31.79
35.560	28.21	31.78
36.830	28.07	31.77
38.100	27.90	31.73

Table 100. Reconstructed Velocity Data for 74.0% Chord on the Suction Surface for an incidence angle of 5.0 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	0.77	0.78
0.508	1.44	1.47
0.762	1.76	1.81
1.016	1.84	1.92
1.270	2.18	2.27
1.524	2.53	2.65
1.778	2.76	2.90
2.032	3.01	3.17
2.286	3.27	3.44
2.540	3.49	3.69
2.794	3.94	4.16
3.048	4.30	4.54
3.302	4.46	4.73
3.556	4.79	5.07
3.810	5.18	5.48
4.064	5.29	5.62
4.318	5.81	6.15
4.572	5.97	6.34
4.826	6.39	6.78
5.080	6.65	7.06
5.334	7.02	7.45
5.842	7.99	8.46
6.350	8.51	9.03
6.985	9.73	10.30
7.620	10.73	11.35
8.255	12.10	12.77
8.890	12.95	13.68
9.525	14.22	15.00
10.160	15.89	16.72
10.795	17.15	18.04
11.430	18.39	19.33
12.065	19.55	20.54
12.700	20.83	21.87
13.335	22.10	23.19
13.970	23.32	24.47
14.605	24.53	25.73
15.240	25.36	26.61
15.875	26.36	27.66
16.510	26.98	28.34
17.145	27.80	29.21
17.780	28.36	29.82
19.050	29.15	30.72
20.320	29.31	30.98
21.590	29.26	31.04
22.860	29.21	31.09
24.130	29.14	31.13
25.400	29.09	31.18
26.670	29.00	31.20
27.940	28.91	31.21

Table 100. (Continued)

29.210	28.83	31.24
30.480	28.73	31.25
31.750	28.59	31.21
33.020	28.49	31.21
34.290	28.38	31.21
35.560	28.26	31.20
36.830	28.20	31.24
38.100	28.07	31.21

Table 101. Reconstructed Velocity Data for 84.2% Chord on the Suction Surface for an incidence angle of 5.0 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	0.07	0.14
0.508	0.10	0.19
0.762	0.06	0.17
1.016	0.07	0.19
1.270	0.07	0.20
1.524	0.25	0.40
1.778	0.34	0.50
2.032	0.26	0.44
2.286	0.41	0.59
2.540	0.52	0.72
2.794	0.83	1.04
3.048	1.00	1.23
3.302	1.32	1.57
3.556	1.36	1.62
3.810	1.41	1.68
4.064	1.64	1.93
4.318	1.82	2.12
4.572	1.93	2.24
4.826	2.21	2.54
5.080	2.38	2.72
5.715	2.91	3.28
6.350	3.70	4.11
6.985	4.21	4.65
7.620	4.72	5.20
8.255	5.40	5.92
8.890	6.09	6.64
9.525	6.76	7.34
10.160	7.49	8.11
10.795	8.36	9.01
11.430	8.71	9.40
12.065	9.64	10.37
12.700	10.43	11.20
13.335	11.49	12.28
13.970	12.32	13.16
14.605	13.10	13.97
15.240	14.25	15.15
15.875	15.44	16.38
16.510	16.36	17.33
17.145	17.42	18.43
17.780	18.39	19.43
18.415	19.58	20.66
19.050	20.60	21.71
19.685	21.52	22.67
20.320	22.42	23.60
20.955	23.34	24.56
21.590	24.33	25.58
22.225	25.47	26.76
22.860	26.26	27.58
24.130	27.23	28.62

Table 101. (Continued)

25.400	28.05	29.51
26.670	28.44	29.97
27.940	28.65	30.25
29.210	28.68	30.36
30.480	28.68	30.42
31.750	28.61	30.42
33.020	28.59	30.47
34.290	28.49	30.44
35.560	28.42	30.44
36.830	28.37	30.46
38.100	28.30	30.47
39.370	28.24	30.47
40.640	28.15	30.45
41.910	28.06	30.43

Table 102. Reconstructed Velocity Data for 94.9% Chord on the Suction Surface for an incidence angle of 5.0 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	-0.19	-0.19
0.508	-0.33	-0.33
0.762	-0.76	-0.76
1.016	-0.94	-0.93
1.270	-0.86	-0.86
1.524	-0.80	-0.79
1.778	-0.82	-0.81
2.032	-0.43	-0.42
2.286	-0.53	-0.52
2.540	-0.53	-0.52
2.794	-0.61	-0.59
3.048	-0.41	-0.39
3.302	-0.47	-0.45
3.556	-0.27	-0.25
3.810	-0.23	-0.21
4.064	-0.08	-0.06
4.318	0.06	0.08
4.572	0.02	0.04
4.826	0.01	0.03
5.080	0.23	0.25
5.715	0.38	0.41
6.350	0.70	0.73
6.985	1.03	1.06
7.620	1.26	1.29
8.255	1.57	1.61
8.890	1.76	1.81
9.525	2.06	2.11
10.160	2.37	2.42
10.795	2.60	2.65
11.430	3.07	3.12
12.065	3.30	3.36
12.700	3.76	3.82
13.335	4.51	4.58
13.970	4.77	4.84
14.605	5.49	5.57
15.240	5.79	5.87
15.875	6.20	6.28
16.510	6.56	6.64
17.145	7.20	7.28
17.780	7.61	7.70
18.415	8.17	8.26
19.050	8.68	8.77
19.685	9.33	9.43
20.320	9.85	9.95
20.955	10.88	10.98
21.590	11.69	11.80
22.225	12.36	12.47
22.860	13.29	13.40
23.495	13.95	14.07

Table 102. (Continued)

24.130	14.97	15.09
24.765	15.80	15.93
25.400	16.65	16.77
26.035	17.46	17.59
26.670	18.43	18.57
27.305	19.45	19.59
27.940	20.31	20.45
28.575	21.34	21.48
29.210	22.52	22.67
29.845	23.48	23.63
30.480	24.12	24.28
31.115	25.03	25.19
31.750	25.98	26.14
32.385	26.47	26.63
33.020	26.86	27.02
34.290	27.53	27.70
35.560	28.05	28.23
36.830	28.28	28.47
38.100	28.28	28.47
39.370	28.38	28.58
40.640	28.35	28.55
41.910	28.36	28.57
43.180	28.26	28.48

Table 103. Reconstructed Velocity Data for 4.3% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.127	21.89	21.92
0.254	23.86	23.87
1.270	24.44	24.26
2.540	24.67	24.27
3.810	24.90	24.27
5.080	25.25	24.39
6.350	25.48	24.40
7.620	25.73	24.43
8.890	25.98	24.45
10.160	26.39	24.63
11.430	26.52	24.54
12.700	26.77	24.56
13.970	27.03	24.60
15.240	27.37	24.71
16.510	27.55	24.67
17.780	27.76	24.65
19.050	27.96	24.62
20.320	28.25	24.69
21.590	28.48	24.69
22.860	28.64	24.62
24.130	28.83	24.59
25.400	28.97	24.50

Table 104. Reconstructed Velocity Data for 9.7% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.127	19.81	19.76
0.254	23.33	23.27
0.508	24.57	24.47
1.270	24.76	24.56
2.540	24.84	24.46
3.810	24.99	24.44
5.080	25.16	24.44
6.350	25.31	24.42
7.620	25.50	24.43
8.890	25.69	24.45
10.160	25.86	24.44
11.430	25.96	24.37
12.700	26.18	24.42
13.970	26.38	24.45
15.240	26.57	24.47
16.510	26.69	24.41
17.780	26.89	24.44
19.050	27.08	24.46
20.320	27.19	24.39
21.590	27.41	24.44
22.860	27.56	24.42
24.130	27.77	24.45
25.400	27.95	24.46

Table 105. Reconstructed Velocity Data for 20.5% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	13.25	13.24
0.381	18.12	18.10
0.508	21.06	21.02
0.635	22.59	22.54
0.762	23.40	23.34
1.016	23.77	23.68
1.270	23.86	23.74
2.540	24.00	23.74
3.810	24.09	23.69
5.080	24.22	23.69
6.350	24.37	23.69
7.620	24.49	23.68
8.890	24.59	23.64
10.160	24.73	23.64
11.430	24.82	23.60
12.700	24.97	23.61
13.970	25.13	23.63
15.240	25.31	23.67
16.510	25.43	23.65
17.780	25.57	23.65
19.050	25.73	23.68
20.320	25.80	23.60
21.590	25.91	23.58
22.860	26.06	23.59
24.130	26.22	23.61
25.400	26.43	23.69

Table 106. Reconstructed Velocity Data for 30.3% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	9.18	9.14
0.381	12.28	12.22
0.508	15.59	15.52
0.635	18.85	18.76
0.762	20.65	20.54
0.889	21.75	21.63
1.016	22.45	22.32
1.270	23.04	22.88
2.540	23.27	22.98
3.810	23.40	22.98
5.080	23.51	22.95
6.350	23.60	22.91
7.620	23.75	22.93
8.890	23.86	22.90
10.160	23.96	22.87
11.430	24.10	22.88
12.700	24.17	22.81
13.970	24.32	22.82
15.240	24.47	22.84
16.510	24.50	22.74
17.780	24.65	22.76
19.050	24.82	22.79
20.320	24.90	22.73
21.590	25.06	22.77
22.860	25.22	22.79
24.130	25.37	22.81
25.400	25.48	22.79

Table 107. Reconstructed Velocity Data for 40.0% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

Y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	6.52	6.50
0.381	8.77	8.74
0.508	11.29	11.25
0.762	16.58	16.52
1.016	20.08	19.99
1.270	21.76	21.65
1.524	22.29	22.15
2.540	22.54	22.32
3.810	22.65	22.31
5.080	22.74	22.28
6.350	22.84	22.27
7.620	22.99	22.30
8.890	23.09	22.29
10.160	23.28	22.37
11.430	23.32	22.29
12.700	23.45	22.31
13.970	23.56	22.31
15.240	23.73	22.36
16.510	23.80	22.32
17.780	23.91	22.31
19.050	24.06	22.35
20.320	24.11	22.28
21.590	24.28	22.33
22.860	24.36	22.30
24.130	24.49	22.32
25.400	24.62	22.34

Table 108. Reconstructed Velocity Data for 49.7% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	6.62	6.58
0.381	8.21	8.15
0.508	9.85	9.78
0.762	13.08	12.99
1.016	16.17	16.06
1.270	19.11	18.98
1.524	20.80	20.65
2.032	21.99	21.79
2.540	22.11	21.87
3.810	22.19	21.84
5.080	22.33	21.87
6.350	22.41	21.84
7.620	22.54	21.86
8.890	22.63	21.84
10.160	22.77	21.87
11.430	22.88	21.88
12.700	22.98	21.87
13.970	23.08	21.86
15.240	23.21	21.88
16.510	23.31	21.87
17.780	23.44	21.89
19.050	23.54	21.88
20.320	23.63	21.87
21.590	23.75	21.87
22.860	23.88	21.90
24.130	23.97	21.88
25.400	24.08	21.88

Table 109. Reconstructed Velocity Data for 55.1% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	8.77	8.74
0.381	10.35	10.31
0.508	12.01	11.96
0.762	14.25	14.18
1.016	15.98	15.88
1.270	18.46	18.34
1.524	20.00	19.86
2.032	21.48	21.30
2.540	21.94	21.71
3.810	22.14	21.80
5.080	22.28	21.83
6.350	22.38	21.81
7.620	22.51	21.84
8.890	22.62	21.83
10.160	22.74	21.85
11.430	22.84	21.84
12.700	22.98	21.86
13.970	23.10	21.87
15.240	23.22	21.87
16.510	23.33	21.88
17.780	23.42	21.86
19.050	23.57	21.89
20.320	23.64	21.85
21.590	23.76	21.86
22.860	23.89	21.87
24.130	23.99	21.86
25.400	24.12	21.88

Table 110. Reconstructed Velocity Data for 60.5% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	10.58	10.57
0.381	11.96	11.95
0.508	12.95	12.92
0.762	14.64	14.59
1.016	16.44	16.37
1.270	18.05	17.96
1.524	19.22	19.11
2.032	20.59	20.43
2.540	21.25	21.04
3.810	21.84	21.52
5.080	22.07	21.64
6.350	22.15	21.60
7.620	22.23	21.58
8.890	22.39	21.62
10.160	22.56	21.68
11.430	22.57	21.57
12.700	22.76	21.65
13.970	22.83	21.61
15.240	22.93	21.60
16.510	23.06	21.61
17.780	23.18	21.62
19.050	23.28	21.60
20.320	23.40	21.62
21.590	23.55	21.65
22.860	23.61	21.60
24.130	23.72	21.59
25.400	23.83	21.59

Table 111. Reconstructed Velocity Data for 70.3% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

Y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	12.84	12.82
0.381	14.40	14.37
0.508	15.41	15.36
0.762	16.66	16.59
1.016	17.61	17.52
1.524	19.21	19.08
2.032	20.27	20.10
2.540	20.96	20.74
3.810	21.94	21.62
5.080	22.15	21.73
6.350	22.28	21.75
7.620	22.40	21.77
8.890	22.49	21.74
10.160	22.63	21.78
11.430	22.74	21.79
12.700	22.85	21.79
13.970	22.99	21.83
15.240	23.08	21.81
16.510	23.16	21.79
17.780	23.29	21.80
19.050	23.36	21.77
20.320	23.51	21.82
21.590	23.63	21.83
22.860	23.69	21.78
24.130	23.80	21.79
25.400	23.93	21.81

Table 112. Reconstructed Velocity Data for 80.0% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	14.38	14.38
0.381	15.57	15.56
0.508	16.47	16.45
0.762	17.69	17.65
1.016	18.47	18.41
1.524	19.55	19.44
2.032	20.51	20.36
2.540	21.38	21.19
3.810	22.46	22.16
5.080	22.86	22.46
6.350	22.97	22.47
7.620	23.08	22.46
8.890	23.20	22.49
10.160	23.30	22.48
11.430	23.41	22.48
12.700	23.50	22.47
13.970	23.57	22.44
15.240	23.70	22.46
16.510	23.83	22.48
17.780	23.92	22.47
19.050	24.00	22.44
20.320	24.13	22.47
21.590	24.24	22.47
22.860	24.34	22.47
24.130	24.43	22.45
25.400	24.54	22.45

Table 113. Reconstructed Velocity Data for 89.7% Chord on the Pressure Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	14.68	14.68
0.381	16.59	16.58
0.508	17.58	17.56
0.762	18.93	18.90
1.016	19.77	19.72
1.524	20.92	20.85
2.032	21.63	21.54
2.540	22.36	22.23
3.810	23.54	23.35
5.080	23.98	23.72
6.350	24.19	23.86
7.620	24.25	23.86
8.890	24.36	23.90
10.160	24.44	23.92
11.430	24.56	23.97
12.700	24.59	23.93
13.970	24.66	23.94
15.240	24.75	23.95
16.510	24.81	23.95
17.780	24.90	23.98
19.050	24.97	23.98
20.320	25.02	23.97
21.590	25.12	23.99
22.860	25.14	23.95
24.130	25.21	23.95
25.400	25.26	23.94

Table 114. Reconstructed Velocity Data for 98.4% Chord on the Pressure Surface for an incidence angle of −1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	20.20	20.23
0.381	21.67	21.70
0.508	22.47	22.51
1.016	24.06	24.10
1.524	24.90	24.95
2.540	25.97	26.03
3.810	26.56	26.63
5.080	26.72	26.81
6.350	26.65	26.76
7.620	26.59	26.71
8.890	26.51	26.65
10.160	26.42	26.57
11.430	26.41	26.58
12.700	26.34	26.52
13.970	26.26	26.46
15.240	26.30	26.51
16.510	26.28	26.51
17.780	26.23	26.47
19.050	26.23	26.48
20.320	26.18	26.45
21.590	26.21	26.50
22.860	26.17	26.47
24.130	26.18	26.50
25.400	26.18	26.51

Table 115. Reconstructed Velocity Data for 7.3% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	28.31	28.37
0.508	32.29	32.40
0.762	34.93	35.10
1.016	37.54	37.76
1.270	39.34	39.62
1.524	40.65	40.98
2.032	41.81	42.25
2.540	42.14	42.70
3.810	42.11	42.94
5.080	41.78	42.89
6.350	41.51	42.90
7.620	41.26	42.93
8.890	40.98	42.92
10.160	40.68	42.90
11.430	40.41	42.90
12.700	40.15	42.92

Table 116. Reconstructed Velocity Data for 9.4% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	29.78	29.87
0.381	32.49	32.60
0.508	33.96	34.09
0.635	35.25	35.40
0.762	36.23	36.40
0.889	37.30	37.50
1.016	38.23	38.44
1.143	38.84	39.08
1.270	39.44	39.70
1.524	40.68	40.97
2.032	41.41	41.79
2.540	41.68	42.14
3.810	41.45	42.12
5.080	41.20	42.08
6.350	40.95	42.04
7.620	40.63	41.93
8.890	40.41	41.91
10.160	40.21	41.92
11.430	40.02	41.94
12.700	39.82	41.94
13.970	39.65	41.99
15.240	39.38	41.93
16.510	39.18	41.93
17.780	38.94	41.89

Table 117. Reconstructed Velocity Data for 14.5% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	26.09	26.07
0.381	30.22	30.22
0.508	32.21	32.23
0.635	33.40	33.44
0.762	34.51	34.57
0.889	35.45	35.53
1.016	36.19	36.29
1.143	36.99	37.11
1.270	37.56	37.70
1.524	38.69	38.87
1.778	39.53	39.74
2.032	40.25	40.50
2.286	40.65	40.95
2.540	40.89	41.23
3.810	41.04	41.57
5.080	40.80	41.52
6.350	40.46	41.37
7.620	40.28	41.39
8.890	40.07	41.37
10.160	39.90	41.39
11.430	39.69	41.37
12.700	39.48	41.36
13.970	39.21	41.29
15.240	39.01	41.28
16.510	38.79	41.25
17.780	38.61	41.27
19.050	38.46	41.31
20.320	38.30	41.34
21.590	38.11	41.35
22.860	37.99	41.42

Table 118. Reconstructed Velocity Data for 19.7% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	22.46	22.51
0.381	27.00	27.07
0.508	29.05	29.13
0.635	30.94	31.04
0.762	32.07	32.19
0.889	33.09	33.22
1.016	33.94	34.09
1.143	34.89	35.06
1.270	35.59	35.78
1.524	36.76	36.98
1.778	37.76	38.01
2.032	38.67	38.96
2.540	39.60	39.96
3.810	40.14	40.67
5.080	39.99	40.69
6.350	39.73	40.60
7.620	39.53	40.58
8.890	39.24	40.46
10.160	38.94	40.33
11.430	38.74	40.30
12.700	38.53	40.27
13.970	38.30	40.20
15.240	38.13	40.21
16.510	37.92	40.17
17.780	37.79	40.21
19.050	37.58	40.17
20.320	37.40	40.16
21.590	37.26	40.20
22.860	36.99	40.10
24.130	36.84	40.12
25.400	36.68	40.13
26.670	36.57	40.19
27.940	36.37	40.17
29.210	36.26	40.23
30.480	36.13	40.27
31.750	35.92	40.23

Table 119. Reconstructed Velocity Data for 30.1% Chord on the Suction Surface for an incidence angle of -1.5 deg.

Y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	16.11	16.15
0.381	20.20	20.26
0.508	22.72	22.80
0.635	24.57	24.67
0.762	25.88	26.00
0.889	26.83	26.97
1.016	28.07	28.24
1.143	29.01	29.19
1.270	30.04	30.25
1.524	31.44	31.68
1.778	32.80	33.08
2.032	33.91	34.23
2.286	34.86	35.23
2.794	36.36	36.82
3.302	37.13	37.67
3.810	37.65	38.27
5.080	37.63	38.46
6.350	37.45	38.49
7.620	37.16	38.41
8.890	36.97	38.42
10.160	36.73	38.39
11.430	36.52	38.39
12.700	36.29	38.37
13.970	36.03	38.32
15.240	35.87	38.36
16.510	35.63	38.33
17.780	35.46	38.37
19.050	35.13	38.25
20.320	34.95	38.27
21.590	34.70	38.23
22.860	34.59	38.33
24.130	34.34	38.29
25.400	34.15	38.31
26.670	33.95	38.31
27.940	33.73	38.30
29.210	33.58	38.36
30.480	33.35	38.35
31.750	33.16	38.36

Table 120. Reconstructed Velocity Data for 40.5% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	10.17	10.28
0.381	15.13	15.26
0.508	17.37	17.52
0.635	19.16	19.33
0.762	20.27	20.46
0.889	21.41	21.62
1.016	22.42	22.65
1.143	23.46	23.71
1.270	24.32	24.59
1.524	26.09	26.40
1.778	27.48	27.83
2.032	28.95	29.34
2.286	30.21	30.64
2.540	31.38	31.85
2.794	32.46	32.97
3.048	33.17	33.72
3.556	34.39	35.02
4.064	35.00	35.71
4.572	35.26	36.05
5.080	35.30	36.17
6.350	35.19	36.26
7.620	35.00	36.28
8.890	34.81	36.28
10.160	34.66	36.34
11.430	34.39	36.27
12.700	34.16	36.24
13.970	33.93	36.21
15.240	33.71	36.19
16.510	33.51	36.18
17.780	33.33	36.21
19.050	33.07	36.15
20.320	32.92	36.21
21.590	32.69	36.18
22.860	32.48	36.16
24.130	32.33	36.21
25.400	32.15	36.23
26.670	31.92	36.20
27.940	31.68	36.16
29.210	31.46	36.15
30.480	31.31	36.20
31.750	31.12	36.21

Table 121. Reconstructed Velocity Data for 49.8% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	7.49	7.54
0.381	11.36	11.42
0.508	13.61	13.70
0.635	15.47	15.57
0.762	16.49	16.61
0.889	17.42	17.56
1.016	18.29	18.45
1.143	19.04	19.22
1.270	20.03	20.23
1.524	21.31	21.55
1.778	22.80	23.08
2.032	24.23	24.55
2.286	25.40	25.75
2.540	26.71	27.10
2.794	27.92	28.34
3.048	29.19	29.65
3.556	31.05	31.59
4.064	32.56	33.18
4.572	33.37	34.06
5.080	33.68	34.44
6.350	33.58	34.54
7.620	33.35	34.50
8.890	33.20	34.54
10.160	33.01	34.53
11.430	32.71	34.42
12.700	32.54	34.45
13.970	32.33	34.42
15.240	32.11	34.39
16.510	31.99	34.46
17.780	31.73	34.39
19.050	31.60	34.44
20.320	31.37	34.41
21.590	31.17	34.39
22.860	30.97	34.38
24.130	30.79	34.39
25.400	30.60	34.39
26.670	30.47	34.45
27.940	30.21	34.38
29.210	30.07	34.43
30.480	29.84	34.39
31.750	29.71	34.45

Table 122. Reconstructed Velocity Data for 60.2% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	6.44	6.50
0.381	7.81	7.88
0.508	8.67	8.76
0.635	9.28	9.39
0.762	9.90	10.03
0.889	10.52	10.66
1.016	11.19	11.34
1.143	11.58	11.75
1.270	12.20	12.39
1.524	13.13	13.34
1.778	14.00	14.24
2.032	15.04	15.31
2.286	16.18	16.48
2.540	17.04	17.38
2.794	18.01	18.37
3.048	19.05	19.45
3.302	20.06	20.49
3.556	21.01	21.47
3.810	21.94	22.43
4.064	22.91	23.42
4.318	23.97	24.51
4.572	24.89	25.47
4.826	25.70	26.31
5.080	26.71	27.34
5.588	28.06	28.75
6.096	29.33	30.08
6.604	30.10	30.92
7.112	30.49	31.36
7.620	30.83	31.77
8.128	30.81	31.80
8.890	30.88	31.96
10.160	30.75	31.98
11.430	30.60	31.98
12.700	30.45	31.99
13.970	30.32	32.00
15.240	30.16	31.99
16.510	29.97	31.95
17.780	29.77	31.90
19.050	29.66	31.94
20.320	29.54	31.97
21.590	29.37	31.95
22.860	29.24	31.97
24.130	29.05	31.93
25.400	28.92	31.95
26.670	28.73	31.91
27.940	28.60	31.93
29.210	28.46	31.94
30.480	28.29	31.92
31.750	28.18	31.96

Table 123. Reconstructed Velocity Data for 70.6% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	2.32	2.35
0.381	3.18	3.23
0.508	3.76	3.82
0.635	4.19	4.26
0.762	4.41	4.49
0.889	4.85	4.94
1.016	5.08	5.19
1.143	5.37	5.49
1.270	5.85	5.98
1.524	6.36	6.51
1.778	6.89	7.06
2.032	7.49	7.68
2.286	8.24	8.45
2.540	8.98	9.22
2.794	9.57	9.83
3.048	10.30	10.59
3.302	11.08	11.39
3.556	11.70	12.03
3.810	12.47	12.82
4.064	13.14	13.51
4.318	14.07	14.47
4.572	14.92	15.34
4.826	15.53	15.97
5.080	16.63	17.09
5.334	17.47	17.95
5.588	18.30	18.81
5.842	19.39	19.91
6.096	20.10	20.65
6.350	21.04	21.61
6.604	21.89	22.48
6.858	22.60	23.22
7.112	23.69	24.33
7.366	24.43	25.09
7.620	25.22	25.90
8.128	26.34	27.06
8.636	27.41	28.18
9.144	28.05	28.87
9.652	28.59	29.46
10.160	28.79	29.69
11.430	28.95	29.97
12.700	28.93	30.06
13.970	28.87	30.11
15.240	28.80	30.15
16.510	28.64	30.10
17.780	28.52	30.09
19.050	28.41	30.10
20.320	28.34	30.13
21.590	28.20	30.11
22.860	28.11	30.13

Table 123. (Continued)

24.130	28.00	30.13
25.400	27.85	30.09
26.670	27.74	30.09
27.940	27.62	30.09
29.210	27.57	30.14
30.480	27.42	30.11
31.750	27.30	30.10

Table 124. Reconstructed Velocity Data for 80.0% Chord on the Suction Surface for an incidence angle of -1.5 deg.

Y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	0.30	0.30
0.508	0.54	0.56
0.762	0.72	0.75
1.016	0.93	0.98
1.270	1.35	1.41
1.524	1.58	1.66
1.778	2.01	2.11
2.032	2.30	2.41
2.286	2.79	2.92
2.540	3.22	3.37
2.794	3.44	3.61
3.048	3.79	3.98
3.302	4.26	4.46
3.556	4.90	5.12
3.810	5.37	5.61
4.064	5.70	5.95
4.318	6.18	6.44
4.572	6.62	6.90
4.826	7.16	7.45
5.080	7.71	8.02
5.588	8.37	8.71
6.096	9.68	10.05
6.604	11.02	11.43
7.112	12.17	12.62
7.620	13.47	13.95
8.128	14.78	15.29
8.636	16.22	16.76
9.144	17.75	18.33
9.652	19.21	19.82
10.160	20.91	21.55
10.668	22.17	22.84
11.176	23.61	24.32
11.684	24.98	25.72
12.192	25.88	26.64
12.700	26.77	27.57
13.208	27.32	28.15
13.716	27.63	28.50
14.478	27.77	28.69
15.240	27.99	28.95
16.510	27.98	29.03
17.780	27.89	29.02
19.050	27.82	29.03
20.320	27.74	29.03
21.590	27.67	29.05
22.860	27.55	29.01
24.130	27.47	29.00
25.400	27.41	29.02
26.670	27.30	28.99
27.940	27.24	29.02

Table 124. (Continued)

29.210	27.20	29.06
30.480	27.09	29.03
31.750	26.98	29.00

Table 125. Reconstructed Velocity Data for 90.3% Chord on the Suction Surface for an incidence angle of -1.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	-0.12	-0.11
0.508	-0.31	-0.29
0.762	-0.79	-0.76
1.016	-1.03	-0.99
1.270	-1.00	-0.95
1.524	-1.09	-1.02
1.778	-1.04	-0.96
2.032	-1.07	-0.98
2.286	-1.03	-0.94
2.540	-0.71	-0.60
2.794	-0.77	-0.65
3.048	-0.51	-0.38
3.302	-0.25	-0.10
3.556	-0.12	0.04
3.810	-0.04	0.12
4.064	0.30	0.48
4.318	0.55	0.74
4.572	0.77	0.97
4.826	0.95	1.16
5.080	1.34	1.57
5.588	1.65	1.90
6.096	2.19	2.46
6.604	2.74	3.04
7.112	3.54	3.85
7.620	4.11	4.45
8.128	4.68	5.04
8.636	5.36	5.74
9.144	5.98	6.39
9.652	6.83	7.26
10.160	7.51	7.96
10.668	8.20	8.67
11.176	9.12	9.62
11.684	9.91	10.43
12.192	10.72	11.26
12.700	11.79	12.35
13.208	12.98	13.56
13.716	13.71	14.31
14.224	14.86	15.49
14.732	16.08	16.74
15.240	17.03	17.70
15.748	18.45	19.15
16.256	19.48	20.20
16.764	21.05	21.80
17.272	22.19	22.95
17.780	23.03	23.82
18.288	23.92	24.73
18.796	25.19	26.02
19.304	25.75	26.61
19.812	26.48	27.36

Table 125. (Continued)

20.320	26.74	27.64
20.828	26.98	27.90
21.590	27.24	28.20
22.860	27.30	28.32
24.130	27.29	28.36
25.400	27.21	28.34
26.670	27.16	28.34
27.940	27.10	28.34
29.210	27.04	28.34
30.480	26.98	28.34
31.750	26.93	28.34

Table 126. Reconstructed Velocity Data for 4.3% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.127	26.64	26.65
0.254	29.46	29.45
1.270	31.04	30.94
2.540	31.02	30.79
3.810	31.11	30.76
5.080	31.21	30.74
6.350	31.21	30.62
7.620	31.28	30.56
8.890	31.37	30.53
10.160	31.44	30.49
11.430	31.53	30.45
12.700	31.67	30.47
13.970	31.75	30.43
15.240	31.83	30.39
16.510	31.92	30.35
17.780	32.05	30.36
19.050	32.13	30.32
20.320	32.27	30.34
21.590	32.42	30.37
22.860	32.56	30.39
24.130	32.68	30.38
25.400	32.76	30.34

Table 127. Reconstructed Velocity Data for 9.7% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	26.24	26.23
0.381	28.01	27.98
0.508	28.66	28.62
0.762	29.03	28.97
1.270	29.43	29.32
2.540	29.55	29.31
3.810	29.68	29.30
5.080	29.81	29.30
6.350	29.91	29.27
7.620	30.05	29.28
8.890	30.20	29.30
10.160	30.28	29.25
11.430	30.43	29.27
12.700	30.55	29.26
13.970	30.71	29.28
15.240	30.84	29.28
16.510	30.92	29.23
17.780	31.05	29.22
19.050	31.23	29.28
20.320	31.35	29.26
21.590	31.49	29.27
22.860	31.60	29.25
24.130	31.76	29.28
25.400	31.85	29.24

Table 128. Reconstructed Velocity Data for 20.5% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	18.75	18.74
0.381	21.04	21.01
0.508	22.79	22.75
0.762	24.89	24.82
1.270	26.34	26.22
2.540	27.25	26.98
3.810	27.39	26.97
5.080	27.50	26.95
6.350	27.62	26.91
7.620	27.81	26.97
8.890	27.94	26.95
10.160	28.06	26.92
11.430	28.23	26.95
12.700	28.33	26.91
13.970	28.53	26.96
15.240	28.63	26.92
16.510	28.78	26.93
17.780	28.93	26.93
19.050	29.09	26.95
20.320	29.20	26.92
21.590	29.39	26.96
22.860	29.47	26.90
24.130	29.62	26.90
25.400	29.82	26.96

Table 129. Reconstructed Velocity Data for 30.3% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	16.37	16.83
0.381	18.01	18.46
0.508	19.08	19.51
0.635	20.07	20.49
0.762	20.72	21.13
1.016	22.16	22.53
1.270	23.16	23.51
1.778	24.58	24.87
2.540	25.57	25.78
3.810	25.96	26.03
5.080	26.13	26.05
6.350	26.24	26.02
7.620	26.38	26.01
8.890	26.53	26.02
10.160	26.65	26.00
11.430	26.82	26.03
12.700	26.91	25.97
13.970	27.03	25.95
15.240	27.17	25.95
16.510	27.36	25.99
17.780	27.49	25.98
19.050	27.63	25.98
20.320	27.76	25.97
21.590	27.93	26.00
22.860	28.07	25.99
24.130	28.18	25.96
25.400	28.36	26.00

Table 130. Reconstructed Velocity Data for 40.0% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	14.46	14.43
0.381	15.81	15.77
0.508	16.84	16.79
0.635	17.46	17.39
0.762	18.00	17.91
0.889	18.62	18.52
1.016	19.09	18.98
1.270	20.11	19.97
1.524	20.89	20.72
1.778	21.60	21.41
2.032	22.51	22.28
2.540	23.49	23.21
3.810	24.69	24.28
5.080	24.93	24.38
6.350	25.08	24.38
7.620	25.15	24.32
8.890	25.30	24.33
10.160	25.44	24.33
11.430	25.60	24.35
12.700	25.72	24.34
13.970	25.80	24.28
15.240	25.95	24.30
16.510	26.10	24.30
17.780	26.22	24.28
19.050	26.37	24.30
20.320	26.55	24.33
21.590	26.63	24.28
22.860	26.75	24.26
24.130	26.94	24.31
25.400	27.09	24.33

Table 131. Reconstructed Velocity Data for 49.7% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	13.36	13.32
0.381	14.65	14.60
0.508	15.56	15.50
0.635	16.20	16.12
0.762	16.77	16.68
1.016	17.67	17.56
1.270	18.41	18.28
1.524	19.18	19.02
1.778	20.09	19.90
2.032	20.56	20.34
2.540	21.77	21.50
3.810	23.57	23.17
5.080	24.09	23.56
6.350	24.29	23.62
7.620	24.40	23.60
8.890	24.54	23.61
10.160	24.65	23.59
11.430	24.79	23.60
12.700	24.86	23.54
13.970	25.00	23.55
15.240	25.14	23.55
16.510	25.23	23.52
17.780	25.38	23.53
19.050	25.52	23.54
20.320	25.66	23.55
21.590	25.80	23.56
22.860	25.88	23.51
24.130	26.03	23.52
25.400	26.20	23.57

Table 132. Reconstructed Velocity Data for 60.5% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	12.86	12.85
0.381	14.00	13.97
0.508	14.91	14.88
0.762	15.94	15.88
1.016	16.82	16.73
1.270	17.46	17.35
1.524	18.04	17.91
2.032	19.23	19.04
2.540	20.33	20.10
3.048	21.30	21.02
3.810	22.47	22.12
5.080	23.28	22.81
6.350	23.60	23.01
7.620	23.74	23.02
8.890	23.79	22.96
10.160	23.95	23.00
11.430	24.05	22.98
12.700	24.18	22.99
13.970	24.30	22.99
15.240	24.40	22.97
16.510	24.58	23.03
17.780	24.65	22.98
19.050	24.81	23.02
20.320	24.89	22.98
21.590	25.02	22.98
22.860	25.14	22.99
24.130	25.24	22.97
25.400	25.40	23.01

Table 133. Reconstructed Velocity Data for 70.3% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

Y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	11.99	12.01
0.381	13.36	13.36
0.508	14.45	14.44
0.762	15.63	15.60
1.016	16.31	16.26
1.270	16.96	16.88
1.524	17.57	17.47
2.032	18.50	18.36
2.540	19.42	19.23
3.048	20.37	20.13
3.810	21.60	21.29
5.080	22.83	22.40
6.350	23.23	22.68
7.620	23.39	22.72
8.890	23.49	22.70
10.160	23.65	22.74
11.430	23.76	22.73
12.700	23.85	22.70
13.970	23.97	22.70
15.240	24.04	22.65
16.510	24.22	22.71
17.780	24.29	22.67
19.050	24.37	22.63
20.320	24.55	22.68
21.590	24.64	22.65
22.860	24.83	22.72
24.130	24.87	22.65
25.400	25.00	22.66

Table 134. Reconstructed Velocity Data for 80.0% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

Y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	12.91	12.89
0.381	14.16	14.12
0.508	14.98	14.93
0.762	15.95	15.88
1.016	16.65	16.56
1.524	17.67	17.54
2.032	18.54	18.37
2.540	19.30	19.08
3.048	20.17	19.91
3.810	21.28	20.95
5.080	22.43	22.00
6.350	23.05	22.51
7.620	23.38	22.74
8.890	23.50	22.75
10.160	23.61	22.75
11.430	23.72	22.76
12.700	23.83	22.76
13.970	23.95	22.78
15.240	24.02	22.75
16.510	24.14	22.76
17.780	24.25	22.76
19.050	24.35	22.75
20.320	24.45	22.75
21.590	24.56	22.75
22.860	24.70	22.79
24.130	24.80	22.78
25.400	24.86	22.74

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Table 135. Reconstructed Velocity Data for 89.7% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	13.63	13.61
0.381	15.00	14.98
0.508	15.88	15.85
0.762	16.87	16.82
1.016	17.69	17.63
1.524	18.50	18.40
2.032	19.14	19.01
2.540	19.99	19.83
3.048	20.78	20.59
3.810	21.57	21.33
5.080	22.91	22.59
6.350	23.67	23.28
7.620	23.91	23.44
8.890	24.04	23.48
10.160	24.08	23.44
11.430	24.24	23.52
12.700	24.31	23.51
13.970	24.43	23.55
15.240	24.48	23.53
16.510	24.58	23.54
17.780	24.67	23.56
19.050	24.69	23.50
20.320	24.80	23.52
21.590	24.84	23.49
22.860	24.99	23.56
24.130	25.04	23.53
25.400	25.13	23.54

Table 136. Reconstructed Velocity Data for 98.4% Chord on the Pressure Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	16.71	16.70
0.381	18.07	18.06
0.508	18.98	18.96
0.762	20.04	20.01
1.016	20.61	20.58
1.524	21.30	21.25
2.032	22.03	21.98
2.540	22.49	22.42
3.810	23.79	23.69
5.080	24.67	24.53
6.350	25.20	25.03
7.620	25.21	25.01
8.890	25.21	24.98
10.160	25.18	24.92
11.430	25.20	24.90
12.700	25.18	24.85
13.970	25.16	24.80
15.240	25.18	24.78
16.510	25.19	24.76
17.780	25.24	24.77
19.050	25.26	24.77
20.320	25.27	24.75
21.590	25.32	24.76
22.860	25.36	24.77
24.130	25.39	24.77
25.400	25.41	24.76

Table 137. Reconstructed Velocity Data for 10.4% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.508	40.08	40.16
1.270	40.06	40.22
2.540	39.85	40.17
3.810	39.63	40.11
5.080	39.48	40.12
6.350	39.23	40.03
7.620	39.02	39.98
8.890	38.84	39.96
10.160	38.65	39.92
11.430	38.52	39.95
12.700	38.35	39.94
13.970	38.22	39.97
15.240	38.05	39.95
16.510	37.92	39.98
17.780	37.79	40.01

Table 138. Reconstructed Velocity Data for 19.7% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.508	41.07	41.13
1.270	41.62	41.79
2.540	41.25	41.61
3.810	41.00	41.55
5.080	40.71	41.44
6.350	40.51	41.42
7.620	40.27	41.37
8.890	40.07	41.35
10.160	39.89	41.36
11.430	39.65	41.31
12.700	39.51	41.35
13.970	39.23	41.25
15.240	38.98	41.18
16.510	38.81	41.21
17.780	38.64	41.22
19.050	38.50	41.26
20.320	38.32	41.27
21.590	38.12	41.25
22.860	38.03	41.34
24.130	37.80	41.31
25.400	37.71	41.40

Table 139. Reconstructed Velocity Data for 30.1% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	18.22	18.24
0.381	25.49	25.53
0.508	33.45	33.51
1.270	41.08	41.27
2.540	40.83	41.23
3.810	40.62	41.23
5.080	40.41	41.22
6.350	40.13	41.15
7.620	39.94	41.18
8.890	39.71	41.15
10.160	39.50	41.15
11.430	39.16	41.02
12.700	38.98	41.05
13.970	38.72	41.00
15.240	38.52	41.01
16.510	38.29	40.99
17.780	38.11	41.01
19.050	37.94	41.05
20.320	37.73	41.05
21.590	37.52	41.05
22.860	37.35	41.09
24.130	37.17	41.12
25.400	36.93	41.09

Table 140. Reconstructed Velocity Data for 40.5% Chord on the Suction Surface for an incidence angle of -8.5 deg.

Y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	5.03	5.07
0.381	10.66	10.73
0.508	16.76	16.85
0.635	23.86	23.97
0.762	29.32	29.45
0.889	33.84	34.00
1.016	37.25	37.42
1.270	39.24	39.46
2.540	39.51	39.95
3.810	39.28	39.94
5.080	39.04	39.92
6.350	38.75	39.86
7.620	38.57	39.90
8.890	38.40	39.96
10.160	38.12	39.90
11.430	37.90	39.90
12.700	37.68	39.90
13.970	37.50	39.94
15.240	37.23	39.90
16.510	36.97	39.85
17.780	36.75	39.86
19.050	36.50	39.83
20.320	36.35	39.90
21.590	36.11	39.88
22.860	35.88	39.88
24.130	35.68	39.90
25.400	35.50	39.94

Table 141. Reconstructed Velocity Data for 49.8% Chord on the Suction Surface for an incidence angle of -8.5 deg.

Y (mm)	u measured (m/s)	u reconstructed (m/s)
0.127	-0.09	-0.06
0.254	0.86	0.91
0.381	2.66	2.73
0.508	5.73	5.82
0.635	10.57	10.68
0.762	16.14	16.28
0.889	21.79	21.95
1.016	26.89	27.07
1.143	31.04	31.25
1.270	34.71	34.94
1.397	36.80	37.05
1.524	37.71	37.98
1.778	38.33	38.64
2.540	38.34	38.79
3.810	38.07	38.75
5.080	37.87	38.78
6.350	37.51	38.64
7.620	37.29	38.65
8.890	37.08	38.67
10.160	36.78	38.59
11.430	36.55	38.59
12.700	36.31	38.58
13.970	36.02	38.52
15.240	35.82	38.54
16.510	35.60	38.55
17.780	35.32	38.49
19.050	35.12	38.52
20.320	34.92	38.54
21.590	34.70	38.55
22.860	34.47	38.55
24.130	34.21	38.51
25.400	33.98	38.51
26.670	33.72	38.48
27.940	33.57	38.55
29.210	33.35	38.56
30.480	33.18	38.62

Table 142. Reconstructed Velocity Data for 55.0% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	0.80	0.84
0.381	3.16	3.23
0.508	5.55	5.64
0.635	9.24	9.35
0.762	14.46	14.59
0.889	20.10	20.26
1.016	24.27	24.45
1.143	28.03	28.23
1.270	30.43	30.66
1.397	33.45	33.70
1.524	35.29	35.56
1.778	36.97	37.29
2.032	37.72	38.08
2.540	37.83	38.28
3.810	37.49	38.17
5.080	37.14	38.05
6.350	36.79	37.92
7.620	36.54	37.91
8.890	36.22	37.81
10.160	36.02	37.83
11.430	35.74	37.78
12.700	35.51	37.78
13.970	35.21	37.71
15.240	35.04	37.76
16.510	34.76	37.72
17.780	34.54	37.72
19.050	34.29	37.69
20.320	34.05	37.68
21.590	33.80	37.66
22.860	33.60	37.69
24.130	33.42	37.74
25.400	33.16	37.71
26.670	32.96	37.73
27.940	32.74	37.73
29.210	32.55	37.78
30.480	32.34	37.79

Table 143. Reconstructed Velocity Data for 60.2% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	13.96	13.99
0.381	17.99	18.04
0.508	21.52	21.59
0.635	24.44	24.53
0.762	26.65	26.76
0.889	28.36	28.49
1.016	30.08	30.23
1.143	31.47	31.64
1.270	32.37	32.56
1.524	33.74	33.97
1.778	34.49	34.76
2.540	35.44	35.84
3.810	35.61	36.21
5.080	35.48	36.29
6.350	35.29	36.31
7.620	35.19	36.41
8.890	34.96	36.39
10.160	34.78	36.41
11.430	34.62	36.46
12.700	34.40	36.44
13.970	34.15	36.40
15.240	33.98	36.43
16.510	33.75	36.41
17.780	33.57	36.43
19.050	33.35	36.42
20.320	33.09	36.36
21.590	32.92	36.40
22.860	32.69	36.38
24.130	32.50	36.39
25.400	32.29	36.39
26.670	32.11	36.41
27.940	31.88	36.39
29.210	31.72	36.43
30.480	31.55	36.47

Table 144. Reconstructed Velocity Data for 70.6% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	17.97	18.01
0.381	21.70	21.76
0.508	23.47	23.54
0.635	24.67	24.76
0.762	25.88	25.99
0.889	26.63	26.76
1.016	27.54	27.69
1.270	28.64	28.82
1.524	29.68	29.89
1.778	30.91	31.16
2.032	31.54	31.83
2.540	32.58	32.94
3.810	33.75	34.28
5.080	33.88	34.60
6.350	33.76	34.65
7.620	33.55	34.62
8.890	33.38	34.63
10.160	33.21	34.64
11.430	33.02	34.62
12.700	32.80	34.58
13.970	32.58	34.54
15.240	32.41	34.55
16.510	32.24	34.55
17.780	32.05	34.54
19.050	31.85	34.52
20.320	31.68	34.53
21.590	31.50	34.53
22.860	31.37	34.57
24.130	31.09	34.47
25.400	30.95	34.51
26.670	30.78	34.51
27.940	30.63	34.55
29.210	30.48	34.57
30.480	30.33	34.60

Table 145. Reconstructed Velocity Data for 80.0% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	11.36	11.38
0.381	16.77	16.81
0.508	19.69	19.75
0.635	21.46	21.53
0.762	22.31	22.40
0.889	23.17	23.27
1.016	23.93	24.04
1.270	25.14	25.29
1.524	26.15	26.32
1.778	27.11	27.31
2.032	28.15	28.39
2.540	29.37	29.66
3.048	30.45	30.80
3.810	31.42	31.86
5.080	32.12	32.72
6.350	32.19	32.94
7.620	32.03	32.92
8.890	31.92	32.97
10.160	31.69	32.89
11.430	31.51	32.86
12.700	31.28	32.78
13.970	31.16	32.81
15.240	31.00	32.80
16.510	30.82	32.78
17.780	30.64	32.75
19.050	30.54	32.80
20.320	30.38	32.79
21.590	30.22	32.78
22.860	30.05	32.76
24.130	29.91	32.77
25.400	29.73	32.74
26.670	29.60	32.76
27.940	29.46	32.77
29.210	29.31	32.77
30.480	29.25	32.86

Table 146. Reconstructed Velocity Data for 90.3% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	7.49	7.51
0.381	10.76	10.79
0.508	13.01	13.06
0.635	14.69	14.75
0.762	15.67	15.73
0.889	16.62	16.69
1.016	17.42	17.50
1.143	18.16	18.25
1.270	18.78	18.88
1.524	19.83	19.95
1.778	20.70	20.84
2.032	21.74	21.90
2.540	23.24	23.43
3.048	24.44	24.67
3.556	25.68	25.95
4.064	26.74	27.04
4.572	27.60	27.95
5.080	28.29	28.67
5.588	28.71	29.13
6.350	29.18	29.66
7.620	29.41	29.98
8.890	29.35	30.01
10.160	29.32	30.07
11.430	29.17	30.02
12.700	29.08	30.02
13.970	28.96	29.99
15.240	28.88	30.01
16.510	28.68	29.91
17.780	28.61	29.93
19.050	28.52	29.93
20.320	28.43	29.94
21.590	28.32	29.91
22.860	28.23	29.92
24.130	28.15	29.94
25.400	28.09	29.97
26.670	27.96	29.94
27.940	27.88	29.94
29.210	27.78	29.94
30.480	27.70	29.95

Table 147. Reconstructed Velocity Data for 97.6% Chord on the Suction Surface for an incidence angle of -8.5 deg.

y (mm)	u measured (m/s)	u reconstructed (m/s)
0.254	3.65	3.65
0.381	5.96	5.97
0.508	7.11	7.12
0.762	8.62	8.64
1.016	9.78	9.80
1.270	10.97	11.00
1.524	11.86	11.91
1.778	12.90	12.95
2.032	14.04	14.10
2.286	15.00	15.07
2.540	16.00	16.08
3.048	17.65	17.75
3.556	19.21	19.33
4.064	20.59	20.72
4.572	21.90	22.05
5.080	23.16	23.33
5.588	24.19	24.37
6.350	25.35	25.56
7.620	26.43	26.68
8.890	26.93	27.23
10.160	27.03	27.37
11.430	27.02	27.40
12.700	27.01	27.44
13.970	26.95	27.42
15.240	26.91	27.42
16.510	26.90	27.46
17.780	26.84	27.44
19.050	26.83	27.47
20.320	26.76	27.45
21.590	26.73	27.46
22.860	26.71	27.48
24.130	26.65	27.47
25.400	26.60	27.46
26.670	26.56	27.46
27.940	26.48	27.43
29.210	26.46	27.46
30.480	26.43	27.47

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16. Abstract

Measurements have been made of the boundary layers and wakes about a highly loaded, double-circular-arc compressor blade in cascade. These laser Doppler velocimetry measurements have yielded a very detailed and precise data base with which to test the application of viscous computational codes to turbomachinery. In order to test the computational codes at off-design conditions, the data have been acquired at a chord Reynolds number of 500,000 and at three incidence angles. Average values and 95% confidence bands have been tabularized for the velocity, local turbulence intensity, skewness, kurtosis, and percent backflow. Tables also exist for the blade static-pressure distributions and boundary layer velocity profiles reconstructed to account for the normal pressure gradient.

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